Aus der Vorrede zur V. Serie des Atlas Stellarum Variabilium.

Die Einteilung des Atlas der veränderlichen Sterne in drei Hauptklassen ist zu dem Ende gemacht worden, dass jede Klasse einer gewissen instrumentalen Ausrüstung entspreche, durch welche dieselbe vollständig beobachtet werden kann.

Es ist aus den veröffentlichten Serien I, II, III bekannt, dass die erste Klasse die schwüchsten veränderlichen Sterne enthält und somit grössere Instrumente erfordert. Die zweite Klasse, die als Serie IV erscheinen wird, entspricht der Bonner Durchmusterung, sowohl was die Grenze der Sterngrössen anbelangt, als auch die Instrumente, die zu ihrer Fertigstellung von Nöten waren. Das sind nämlich die kleineren der äquatorial aufgestellten Refraktoren. Diese V. Serie endlich, welche die dritte Klasse bildet, enthält jene veränderlichen, welche entweder mit freiem Auge oder in kleinen Handinstrumenten sichtbar sind.

Bei der Herstellung dieser Serie nun wurde der Mangel eines geeigneten Fernrohres sehr vermisst. Vielfache Versuche machten klar, dass die gewöhnlichen Opernglüser oder Feldstecher dem gegenwärtigen Zwecke nur unvollkommen entsprechen. Da erschien in den Annalen von Moskau (IV, 1902, p. 121) die Beschreibung eines Instrumentes von Steinheil Söhne, das diesem Mangel abzuhelfen versprach. Der Unterzeichnete stellte nun an diese bekannte optische Firma das Ansuchen, ein ähnliches Doppelfernrohr speziell für die Zwecke dieser V. Serie zu konstruiren und ihm zur Prüfung zu übersenden, worauf dieselbe auch bereitwilligst einging.

Das übersandte Instrument hat ausser dem gewöhnlichen Okularauszug noch eine Vorrichtung, die beiden Rohre dem gegenseitigen Abstande beider Augen anzupassen. Ueberdies ist das eine der Objektive verschiebbar, um der verschiedenen Sehweite der beiden Augen des Beobachters Rechnung zu tragen. Die freie Oeffnung der Objektive ist 34 mm und das Gesichtsfeld ist $7^1/2$ Grad. Die Bilder erscheinen umgekehrt, mit fünffacher Vergrösserung und 49 facher relativer Lichtstärke.

Obwohl eine ganze Reihe von sogenannten Binokeln zur Vergleichung dieser Karten mit dem Himmel benutzt wurde, hielten dieselben doch mit diesem Steinheilschen Doppelfernrohr den Vergleich in keiner Weise aus. Wir nehmen deshalb keinen Anstand, dasselbe allen Denen, welche diese V. Serie benutzen wollen, als das geeignetste Instrument zu empfehlen.

J. G. Hagen S. J.

Obenerwähntes lichtstarke astronomische Doppelfernrohr, Vergrösserung fünfmal, mit Triebeinstellung, besonderer Verstellung am Objektiv für verschiedene Sehschärfen der beiden Augen, verstellbarem Okularabstand, zwei dreifachen Objektiven, 34 mm Oeffnung, zwei achromatischen Okularen AF, zwei Sonnengläsern, Lederetui mit Riemen etc.

C. A. Steinheil Söhne, optisch-astronomische Werkstätte.

Extract from the Preface to Series V of the Atlas Stellarum Variabilium.

The division of the Atlas of Variable Stars into three principal parts was made for the purpose of adapting each part to a certain instrumental equipment by which it could be conveniently observed.

From Series I, II, III already published, it is evident that the first part contains the fainter variables and requires larger instruments. The second part, to appear as Series IV, will correspond to the Bonner Durchmusterung both in stellar magnitude, i. e. down to the tenth, and in instrumental equipment, viz. smaller equatorials. This Series V, which forms the third part, contains the variables visible to the naked eye and those requiring the aid of an opera glass.

In preparing this Series the need of a suitable glass was keenly felt. After repeated tests had proved the insufficiency of the ordinary opera glass, volume IV of the Annals of Moscow of 1902 described on page 121 an instrument by Steinheil Sons which promised success. They promptly acceeded to our request to produce an instrument of this discription which would meet the requirements of Series V.

The instrument sent for trial has first the ordinary focusing adjustment of the opera glass, second a lateral motion conforming the distance of the tubes to the range of the observers eyes, and third a special device for focusing the two objectives independently. The free aperture of the object glasses is 34 mm and the field is $7^1/2$ degrees. The images appear inverted and magnified 5 times. The relative light intensity is 49.

Although we have used quite a number of binoculars in comparing these charts with the sky, no one of them was in the same class with the Steinheil instrument. We have no hesitation in consequence in recommending the latter to all who use these charts as the best suited to the purpose.

J. G. Hagen. S. J.

The above mentioned binoculars consist of two astronomical telescopes giving inverted and very bright images, magnifying 5 times with simultaneous rack and pinion focusing arrangement, special focusing for each eye independently for eyes that are not identical, adjustable separation of the eyepieces to suit any pair of eyes.

³ triplet objectglasses 34 mm aperture, 2 achromatic eyepieces AF, 2 dark glasses for solar observations leather case with strap etc.

Price, mounted	in	brass	•					M.	210
Price, mounted	in	aluminium	_		_			M	250

C. A. Steinheil Söhne, optical and astronomical works.

Atlas Stellarum Variabilium.

Index Chartarum quae in Seriebus I., II., III. continentur.

Die Verlagshandlung liefert diesen vorläufigen Index zur leichteren Orientirung und beabsichtigt denselben später durch einen Appendix zu ersetzen, wenn die III. Serie erschienen sein wird.

For the convenience of subscribers this Index is provisionally supplied by the publisher. It will be superseded by an Appendix when the III. Series leaves the press.

Cet Index est inséré provisoirement pour la convenance des abonnés: il sera remplacé par un Appendice quand la III. Série sortira de la presse.

Num.	Nomen Stellae	Series	Num.	Nomen Stellae	Series	Num.	Nomen Stellae	Series
103	T Andromedae	III	1923	S Aurigae	111	4315	R Comae	II
107	T Cassiopeine	111	1944	S Orionis	I	4377	T Virginis	1
112	R Andromedae	11.1	1981	S Camelopardalis	111	4407	R Corvi	1
114	S Ceti	1	1986	T Orionis	I	4492	Y Virginis	1
161	T Piscium	II	2013	U Aurigae	III	4511	T Ursae Maioris	111
243	U Cassiopeiae	III	2100	U Orionis	II	4596	U Virginis	11
432	S Cassiopeiae	III	2258	V Aurigae	111	4816	V Virginis	1
434	S Piscium	1I	2478	R Lyncis	III	4847	S Virginis	I
466	U Piscium	11	2528	R Geminorum	II	4948	R Canum Venaticorum	III
513	R Piscium	II	2625	V Geminorum	11	5037	RR Virginis	I
678	U Persei	III	2684	S Canis Minoris	II	5070	Z Virginis	1
715	S Arietis	11	2691	T Canis Minoris	II	5157	S Bootis	III
782	R Arietis	II	2735	U Canis Minoris	11	5190	R Camelopardalis	III
814	S Persei	III	2742	S Geminorum	II	5237	R Bootis	111
845	R Ceti	I	2780	T Geminorum	11	5249	V Librae	I
906	R Trianguli	III	2815	U Geminorum	II i	5338	U Bootis	l II
1113	U Arietis	II	2857	U Puppis	I	5430	T Librae	l I
1222	R Persei	III	2946	R Cancri	11	5494	S Librae	1
1537	T Tauri	II	2976	V Cancri	II	5501	S Serpentis	l 11
1574	W Tauri	II	3060	U Cancri	II	5504	S Coronae	III
I 577	R Tauri	II	3170	S Hydrae	II	5583	X Librae	I
1582	S Tauri	II	3184	T Hydrae	1	5593	W Librae	I
1623	T Camelopardalis	III	3477	R Leonis Minoris	III	5617	U Librae	I
1717	V Tauri	II	3567	V Leonis	II	5644	Z Librae	1
1761	R Orionis	II	3825	R Ursae Maioris	III	5667	R Coronae	III
1805	V Orionis	II	3890	W Leonis	II	5675	V Coronae	III
1855	R Aurigae	III	3994	S Leonis	II	5677	R Serpentis	п

Num.	Nomen Stellae	Series	Num.	Nomen Stellae	Series	Num.	Nomen Stellae	Series
5704	RR Librae	I	6903	T Sagittarii	I	7571	V Capricorni	I
5761	Z Scorpii	I	6905	R Sagittarii	I	7577	X Capricorni	I
5770	R Herculis	II	6921	S Sagittarii	I	7659	T Capricorni	ı
5776	X Scorpii	I	6923	Z Sagittarii	I	7733	Y Capricorni	I
5795	W Scorpii	I	7045	R Cygni	III	7779	S Cephei	III
5830	R Scorpii	I	7120	χ Cygni	III	7907	U Aquarii	I
5831	S Scorpii	I	7192	Z Cygni	III	7944	T Pegasi	II
5889	U Herculis	II	7234	R Capricorni	I	8068	S Lacertae	III
5928	T Ophiuchi	I	7252	W Capricorni	I	8153	R Lacertae	III
5931	S Ophiuchi	I	726 t	R Delphini	II	8230	S Aquarii	I
5950	W Herculis	III	7428	V Cygni	III	8290	R Pegasi	II
5955	R Draconis	III	7431	S Delphini	II	8373	S Pegasi	II
6044	S Herculis	II	7444	T Delphini	11	8512	R Aquarii	I
6132	R Ophiuchi	I	7455	U Capricorni	I	8597	V Ceti	, I
6512	T Herculis	III	7468	T Aquarii	I	•	,	
6849	R Aquilae	II	7560	R Vulpeculae	II			

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ATLAS

STELLARUM VARIABILIUM.

SERIES QUINTA,

TOTIUS CAELI STELLAS VARIABILES COMPLECTENS,

QUARUM LUX MINIMA EST SUPRA MAGNITUDINEM 7M,

COMPOSITA

A

I. G. HAGEN, S. I.,

DIRECTORE SPECULAE UNIVERSITATIS GEORGIOPOLITANAE, WASHINGTON, D. C.,

ET TYPIS DESCRIPTA SUBSIDIIS

CL. DOMINAE CATHARINAE W. BRUCE.

BEROLINI,
APUD FELICEM L. DAMES,
MCMVI.



PRAEFATIO.

Atlas Stellarum Variabilium divisus est in Series quinque, quarum haec ultima ad observandas illas stellas variabiles iuvat, quae nudis oculis conspicuae manent. E reliquis tamen Seriebus huic insertae sunt stellae perpaucae, quarum magna mutationis pars nudis oculis vel instrumento manuali observanda est. Hae sunt χ Cygni (Ser. III), o Ceti (Ser. IV), R Hydrae (Ser. IV), R Carinae (Ser. IV), quibus adnumerari potest η Carinae. Aliae autem stellae, quarum lux minima est infra magnitudinem septimam, huic Seriei propriae non sunt, quamquam earum viginti sex suis locis indicantur, quia dum maxime lucent, his Chartis cognosci et observari possunt.

Unde satis apparet hanc Seriem non tam ex observationibus nostris quam ex aliorum libris esse compositam. Quare totum fere laborem iis, qui mihi assistebant: PP. I. Hisgen, G. Zwack, I. T. Hedrick, committere potui. Delineatas autem Chartas cum caelo, quantum in his regionibus conspici potest, diligentissime comparavi, stellasque tenuiores, si quae ad observandam lucem minimam et ad solvendas ambiguitates videbantur utiles, inserendas curavi. Chartas circa polum australem sitas, quae sunt quattuor ultimae huius Seriei, P. Edmundus Goetz S. I., postquam eas in nostra specula delineavit sedemque suam anno 1903 in civitate Bulawayo, Rhodésia, fixit, eodem modo eademque cura cum caelo comparavit.

Iam quo facilius intellegatur, qua ratione hic Catalogus sit compositus et stellae descriptae in Chartis, haec videntur explicanda.

Chartarum inscriptiones numeros et litteras stellarum variabilium continent et variationes a maxima usque ad minimam lucem mediis numeris indicant.

Fines regionum describendarum eo consilio electi sunt, ut singulae Chartae ad variabiles certo inveniendas solae sufficerent. Quo factum est, ut Chartae, cum aliae aliis maiorem vel minorem caeli partem repraesentarent, et scala proiectionis et numero variabilium inter se discreparent. Proicientis sphaerae diversos radios et uniuscuiusque Chartae coordinatas centri in tabula I. huic praefationi addita invenies.

Regio circa eas variabiles, quae ad debiliorem lucem descendunt, sicut in ceteris Seriebus stellis densior est quam pars Chartae reliqua. His regionibus exceptis Chartae non continent nisi stellas usque ad magnitudinem quintam. Imagines autem variabilium eodem modo atque in ceteris Seriebus duobus circulis designantur, quorum exterior lucem maximam, minimam interior indicat.

Nunc Catalogum explicemus. Hic a reliquis Seriebus differt et inscriptionibus foliorum et columnis, quibus nomina, collocationes, magnitudines stellarum eduntur.

Inscriptionum enim numeros quidem et litteras, quibus stellae variabiles designantur, et formulas, quibus leges variationum lucis definiuntur, ex III. catalogo D. Chandler transcripsimus; earum autem stellarum, quae ad typum "Algol" pertinent, variatio longitudine tantum periodi indicatur, quia tempus lucis minimae, cum sit brevissimum, certius ex ephemeride speciali, quam ex computatione colligitur.

Nominantur autem stellae, ut moris est, non solum constellationibus, in quibus separandis clarissimos viros Argelander, Heis, Gould secuti sumus, sed etiam litteris Bayeri et numeris Flamsteedii vel Uranometriae Argentinae. Quae stella aliis constellationibus ab aliis tribuatur, notis docetur. Sequuntur numeri ex catalogis Bonnae (BD.) et Cordubae (CD.) confectis (omnes infra declinationem — 23° ad hunc referuntur, ad illum ceteri), vel ex catalogo qui a D. Pickering Southern Meridian Photometry inscribitur et Tabulis VII et XIII tomi XXXIV Annalium H. C. O. constat (numeri uncis inclusi in sola Tab. VII. inveniuntur).

Loca stellarum ordinavimus, quantum per constellationes fieri potuit, secundum Ascensiones Rectas. Plurima ex optimis catalogis, ut "Berliner Astr. Jahrbuch", "Catalog der astronomischen Gesellschaft", "Catalogo General de Córdoba", pauca ex BD. vel CD. desumpsimus, omnia ad annum 1900.0 reduximus.

Magnitudines stellarum, quippe quae a viris peritissimis determinatae iam sint, ex tribus catalogis, qui nobis videbantur optimi, transtulimus. Qui sunt DD. Müller et Kempf Photometrische Durchmusterung, Harvard Photometry (H. C. O. t. XXXIV, XLIV, XLV), Uranometria Argentina, designantur PD., HP., UA. Litteris PD. in quattuor ultimis foliis huius catalogi substituuntur LM., quibus magnitudines a Dr. Roberts (Lovedale, Cape Colony) determinatae indicantur. Aliorum magnitudines earumque comparatio critica, in catalogis PD. et HP. inveniuntur. Partes horum operum in lucem nondum editas ab auctoribus esse nobis transmissas grato animo profitemur.

Iam postremae columnae Notis variationes lucis stellarum variabilium ex catalogo III. D. Chandler depromptae, discrepantes stellarum designationes, numeri cumulorum nebularumque ex aliis catalogis petiti, colores, alia indicantur. Ii numeri, qui proxime sequuntur litteras Kr., referuntur ad opus D. Fr. Krueger, cui titulus: "Catalog der farbigen Sterne" vel, si uncis includuntur, ad eius Supplementum; illi vero, qui has litteras praecedunt, significant colores stellarum ab eodem auctore mensuratos, non scala D. Chandler, ut in reliquis Seriebus, sed scala D. Schmidt. Omissi autem sunt numeri 4.0 minores, cum id unum nobis propositum esset, ne quis in luce stellarum variabilium comparanda stellis nimis coloratis sine speciali attentione uteretur. Neque ad id comparatione critica huius catalogi cum aliis, ut PD. vel D. Osthoft (A. N. 3658) opus erat. Satis est hoc loco commemorare scalas D. Osthoff et D. Krueger (praeter differentiam generalem O - K = + 1; 3) cum D. Schmidt, scalam autem catalogi PD. fere cum D. Chandler congruere (V. J. S. XXXIV pag. 297).

Ultimis quattuor foliis insertae sunt adnotationes ex UA., hoc modo, ut stellae rubentes littera r designentur, ceteri colores littera c; quae plerumque adnotatiuncula subscripta explicantur.

Quibus stellis in metienda luce variabilium viri in hac arte versati usi sint, ex tabula numerorum ad calcem foliorum adiecta cognoscitur. Unde facile patet, quae stellae ad comparationem aptissimae sint. Tantorum virorum experientiam ut iis, qui huius rei minus periti sunt, integram servaremus, libros et scripta diligenti examini subiecimus; praeterea ad plurimos eorum, qui adhuc in vivis sunt, chartas photographia reproductas misimus, ut stellas a se observatas et comparatas indicarent. Inter quos imprimis DD. Pickering, Sawyer, Yendell amplam materiam suppeditarunt. Stellas comparandas circa polum australem D. Innes, Col. Markwick, Dr. Roberts, P. Goetz nobis indicaverunt.

^{*)} Qua via ac ratione usus esset, Dr. Roberts per epistulam nobis declaravit. Experimento facto hos tres magnitudinum limites definivit, ad quos ceteras magnitudines "graduum" mensura referret: magnitudinem 6.8 tenuissimis stellis quae nudo oculo vix cernuntur, magnitudines 9.2 et 11.4 iis stellis assignavit, quas cernere vix potuit instrumentis duobus, minore altero ("I inch"), altero maiore ("Ross 3.1/4 inch"). Graduum "sequentias", quas vocant, inter binos limites viis contrariis, modo a limite superiore, modo ab inferiore profectus ordinavit. Ut omittam alios modos, quibus errores praecavere studuit, aliquotiens, imprimis ad observandas stellas magnitudine 6.8 lucidiores, cuneo photometrico usus est.

Quibus viris iisque omnibus, qui huic operi vel componendo vel typis edendo auxilium praebuere, gratissimi animi sensum exprimere liceat. Quae gratiae imprimis debentur Clarissimae Dominae, cuius nomen et in folio titulari apparet et apud omnes, qui stellarum studio incumbunt, in honore manebit; debentur D. Eduardo C. Pickering, cuius illa commendationibus inducta huic editioni subsidia praebuit; debentur etiam librario, qui, his subsidiis minime in securo collocatus, tamen in hoc Atlante ad pulchritudinis normam imprimendo neque labori pepercit neque periculo.

De instrumento ad hanc seriem V. aptissimo haec animadvertenda sunt. Distributio stellarum variabilium in tres classes principales eo consilio facta est, ut singulis generibus apparatuum, quibus commode observari possent, singulae responderent. Primam enim classem stellas variabiles tenuissimas continere et instrumenta maiora desiderare ex Seriebus I, II, III iam in lucem editis notum est. Classis autem altera, quae titulo Seriei IV. mox evulgabitur, et limitibus magnitudinum stellarum et instrumentis ad observandum adhibendis—minores enim tubi parallactici requiruntur—Catalogis Bonnensibus BD. respondet. Tandem haec V. Series tertiam classem comprehendit easque stellas variabiles exhibet, quae sive nudis oculis sive instrumentis minimis, quae manibus tenentur, conspicuae sunt.

In conficienda hac Serie instrumentum proprium et idoneum desiderabatur. Ex iis enim, quae communiter in spectaculis vel itineribus adhibentur, vix ullum nostro proposito conducere usu creberrimo compertum est. Tandem ex Annalibus Moscoviensibus (vol. IV, 1902, pag. 121) cognovimus instrumentum quoddam a clarissimis fratribus Steinheil constructum esse, quod huic rei conveniens suspicabamur. Hos igitur viros rogavimus, ut apparatum similem et huic operi accommodatum examini nostro committerent. Quod quidem libenter fecerunt.

Instrumentum nobis transmissum, quod ex duobus tubis constat, praeter motum communem, quo obiectum oculis subiciatur, admittit peculiarem, quo oculorum inter se distantiae consulatur. Insuper ut iis serviatur, quorum oculi distantia focali inter se discrepant, alterum obiectivum protrahi potest. Vitrum obiectivum aperturam habet 34 mm. et angulum visionis $7^{1/2}$ subtendit. Imago offertur inversa, diameter 5^{ies} , lucis intensitas 49^{ies} augetur.

Cum hoc instrumento alia binocularia, quorum in comparandis cum caelo Chartis magnum numerum examinavimus, nullo modo conferri posse cognovimus; quare illud huic Seriei sine exemplo aptissimum esse profiteri non dubitamus.

Faxit Deus, quo magis in dies caeli enarrent gloriam suam, ut hoc Atlante via paretur ad stellarum variabilium arcana altius investiganda, plenius intellegenda.

Ex Collegio Georgiopolitano, die 8. Decembris, anno MCMV.

Tabula I.

Numerus Chartae	Centru	Radius Sphaerae		
ı	1 ^h 10 ^m	+450 0'	290 mm	
II	1 30	0 0	165	
m	2 40	+40 0	200	
IV	4 20	+20 0	300	
v	4 25	+40 0	265	
VI	6 0	+20 0	165	
VII	7 0	-20 0	520	
VIII	11 40	0 0	160	
IX	1 5 5	-10 0	650	
x	16 45	+30 0	220	
XI	17 20	0 0	305	
XII	18 0	-25 0	395	
XIII	18 30	+37 30	455	
XIV	19 10	+ 5 0	290	
vx	20 30	+40 0	315	
xvi	22 30	+60 0	225	
xvn	22 50	+20 0	270	
XVIII	7 40	-50 0	370	
XIX	10 20	-60 0	400	
xx	14 0	-70 0	290	
XXI	18 0	-60 0	240	

Tabula II.

Auctores stellarum comparationis.

Argelander	A Oudemans	Ο
Baxendell	B Plassmann	P
Backhouse	Be Plummer	Pr
Birt	Bt Schönfeld	S
Chandler	C Schwab	Sb
Espin	E Safarik	Sk
Gore	G Sawyer	Sr
Heis	H Schmidt	St
Harvard College Obs	Hd Winnecke	W
Hisgen	Hn Wilsing	Wg
Krueger Ad	K Yendell	Y
Lindemann	L Zaiser	Z
Markwick	M Uranometria Argentina .	UA

Addenda et Corrigenda

in Tabulis Stellarum Comparandarum.

Charta	Titulus	Littera	
I	α Cassiopeiae	н	Adde: 10
II	o Ceti	K	Adde: 52, 55, 59, 73
II	o Ceti	H	Adde: 40; dele: 34, 41
III	β Persei	K.	Adde: 20, 23, 26, 32, 37, 38
IV	λ Tauri	H	Adde: 1
VI	α Orionis	Z	Dele: 101
VI	ζ Geminorum	H	Dele: 63, 66
VIII	R Hydrae	· A	Adde: 25, 27, 67, 68, et 32, 66, 348B, PXIII 86
VIII	R Hydrae	H	Adde: 72, dele: 42
IX	d' Librae	\mathbf{z}	Adde: BD. — 10 2991
XII	X Sagittarii	M	Adde: 2, 6, 7 et 8
XII	W Sagittarii	M	Adde: 24
XIV	R Scuti	H	Adde: 18, 21 et 17
XVI	μ Cephei	н	Dele: 39

XIV Num. 7 = 74 Ophiuchi, sub PD., pro 5.0 lege 4.8.

Addendum ad Catalogum Chartae VI.

Constellatio	Bay.	Fl.	BD.	α 19	οο <i>δ</i>	PD.	HP.	UA.	Notae
Auriga	RT	48	+300 1238	6 ^h 22 ^m 1	+300 33'	, 7	zariabil	is	5 ^M -5 ^M 6, Heis 110.

Addenda ad Catalogum Chartae XVI.

	1	ı	1		1	1 1	1
Cassiopeia			+630 99	0 ^h 44 ^m 7	+630 42'	5.6 5.6	
•			+65 115	0.52.2	+65 49	6.1 (6.0)	l
	1		+63 149	1 5.0	+63 40	5.8 5.6	İ
	RU	32	+64 127	1 - 5.2	+64 29	variabilis	5 ^M 8-6 ^M 2

							•
RU	32	Cassiopeiae	Barr	5 ²	62	63	
			Yendell	5º	62	63	

Num.	Constellatio	Bay.	Fl.	BD.		19 α	00 δ	PD.	HP.	UA.	Notae
,	Cassiopeia	β	11	+580	3	0 ^և 3 8	+58° 36′	2.6	2.4		
2		lίλ	14	+53	82	0 26.2	+53 58	4.9	4.9		
3		1			102	0 30.6	+53 37	5.3	5.2		
4		ζ	17	1	105	0 31.4	+53 21	4.1	3.8		
5		α	18	1	139	0 34.8	+55 59		ariabili	s	$2^{M}2-2^{M}8$; $4^{\circ}8$ Kr. 52.
6		η	24	1	150	0 43.0	+57 17	3.8	3.6		
7		γ	27		144	0 50.7	+60 11	2.5	2.2		
8		μ	30		223	1 1.5	+54 26	5.3	5.2		
9		•	33	_	236	1 5.0	+54 37	4.6	4.6		
10		δ	37		248	1 19.3	+59 43	3.0	2.8		
11		ε	45	1	320	1 47.2	+63 11	3.6	3.4		
12	Andromeda	α	21	+28	4	0 3.2	+28 32	2.4	2.1		≡ δ Pegasi.
13		9	24	+37	34	0 11.9	+38 8	4.7	4.6		
14		σ	25	+35	44	0 13.1	+36 14	4.7	4.4		
15		π	29	+ 32	101	0 31.5	+33 10	4.5	4.5		
16		δ	31	+30	91	0 34.0	+30 19	3.5	3.4		4°0 Kr. 51.
17			33	+40	148	0 37.3	+40 43		}		neb. Messier 31 et 32.
18		ν	35	+40	171	0 44.3	+40 32	4.8	4.4		
19		μ	37	+37	¥75	0 51.2	+37 57	4.1	4.0		
20		g	42	+46	275	1 3.7	+46 43	4.5	4.4		
21		β	43	1	198	1 4.1	+35 5	2.3	2.2		5°5 Kr. 91.
22		v	50	+40	332	1 30.9	+40 54	4.3	4.1		
23		γ	57	+41	395	1 57.8	+41 51	2.4	2.3		5°5 Kr. 160.
24	Perseus	υ		+47	467	1 31.9	+48 7	3.8	3.8		51 Androm., Fl. et BAC.
25		φ		1	444	1 37.4	+50 11	4.4	4.1		54 ,, ,,
26		9	13	1	746	2 37.4	+48 48	4.4	4.3		
27	Triangulum	α	2	+28	312	1 47.4	+29 6	3.7	3.6		
28		β	4	+34	38 I	2 3.6	+34 31	3.3	3.0		
29		δ	8	1	395	2 10.9	+33 47	5.1	5.1		
30		γ	9	1	397	2 11.4	+33 23	4.3	4.1		

α Cassiopeiae	A	I	7	10	•	•			
70.73	Вe	1	7	10	11	23			
	Bt	I	7	•	•	•			
	H	r	7	•	•	•			
	L	1	7	10	•	•			
	0	1	7	•	•	•			
	P	I	7	10	11	23	et	9	2 I
	Sr	1	7	10	•	•			
	St	I	7	10	ΙI	•	et	α	Cephei
	Wg	1	7	10		•			

Charta II.

100 T Ceti; Periodus irregularis.

806 O Ceti; Max.: 2402963^d4 (27. Dec. 1866) + 331^d 6 E (Inaequ. period.).

Num.	Constellatio	Bay.	Fl.	B & CD.	α 19	οο δ	PD.	HP.	UA.	Notae
1	Cetus		2	-18º 6417	23 ^h 58 ^m 6	-17º 53'		4.5	4.3	
2				-17 6868	23 59.2	-17 5		5.8	5.9	
3				-18 6428	0 2.2	-17 57	ľ	6.1	6.3	5°8 Kr. 3.
4				-18 3	0 3.5	-18 8		6.3	6.2	5°9 Kr. 5.
5			6	-16 17	0 6.2	-16 1		5.1	5.1	
6				-18 14	0 7.1	-18 29		5.6	5.4	5°.4 Kr. 14.
7				-21 17	0 9.3	-21 45		6.9	7.0	
8			7	-19 21	0 9.6	-19 29		4.8	4.3	6°9 Kr. 21.
9				-21 24	0 11.6	-20 46	1	6.4	6.5	
10				-19 30	0 12.5	-19 36		6.5	6.6	
11				-21 31	0 13.2	-21 42	- 1	6.7	6.6	
12		ι	8	- 9 48	0 14.3	- 9 23		3.9	3.5	
13		T		-20 50	0 16.7	-20 37	V	ariabili	s	6 ^M 4-7 ^M 0; 6°5 Kr. 33.
14			•	-20 67	0 22.6	$-20 \ 41$		6.8	6.8	
15				-2I 57	0 23.4	-20 53	1	6.4	6.4	
16				-24 179	0 25.4	-24 21	İ	5.2	5.2	
17				-25 225	0 32.1	-25 19		5.7	5.8	
18		β	16	-18 115	0 38.6	-18 32		2.4	2.3	4°7 Kr. 55.
19		φ^1	17	-11 128	0 39.2	-11 9		4.9	5.1	
20	,			-22 127	0 39.8	-22 33		5.3	5.3	
21				-23 293	0 41.2	-23 4		5.6	5.8	
22				-22 134	0 43.1	-22 16		5.3	5.8	
23		φ^2	19	-11 153	0 45.1	-11 11		5.2	5.5	4
24			20	I II4	0 47.9	- 1 41		4.9	5.2	7.0 Kr. 66.
25		η	31	-10 240	1 3.6	-10 43		3.6	3.5	4 ^c 2 Kr. 90.
26		ઝ	45	- 8 244	1 19.0	- 8 42		3.9	3.2	60 115
27 28			46	-15 266	1 20.7	-15 7		5.0	5.1	5 ⁶ 8 Kr. 117.
1			48	-22 254	1 24.8	-22 9 $- 4 12$		5.1	5.3	
29 30		<i>a</i> .	52	- 4 260 -16 295	1 37.7	-412 -1628		5.1	5.2	
31		τ	53		$egin{array}{cccc} 1 & 39.4 \ 1 & 44.7 \end{array}$	-10 28 $-11 11$		3.7	3.4	
32		χ ζ	55	-11 352 -11 359	1 46.5	-11 11 -10 50		4.7 3.9	4.8	
33		$\begin{bmatrix} \mathbf{v} \\ \mathbf{v} \end{bmatrix}$	59	-11 359 -21 358	1 55.3	$-10^{\circ}30^{\circ}$ $-21^{\circ}34^{\circ}$	/	5.9 4.3	3.5	6°7 Kr. 154.
34			60	- 0 307	1 58.1	$-21 \ 34$		5.5	3.9	0.7 121. 104.
35			63	-2 375	2 6.5	-021 -218		6.0	5.4	
36			66	- 3 336	2 7.7	-252		5.6	6.0 5.8	
37		5 1	65	+ 8 345	2 7.7	+ 8 23	4.7	4.6	4.3	
38		5	67	- 7 393	2 12.0	- 6 53	T. (5.7	5.7	
39		o	68	- 3 353	2 14.3	- 3 26	v	ariabili		$\begin{bmatrix} 1^{M} \\ 5.0 \end{bmatrix} = \begin{bmatrix} 8^{M} \\ 9.5 \end{bmatrix}$; 5°0-8°0 Kr. 186.
40	7 6		U F 1	- 5 438	2 14.7	- 4 48		6.5	6.8	5.0) (9.5, 5 - 5 - 22 - 100.

^{*} Vide etiam Seriem IV.

Num.	Constellatio	Bay.	Fl.	B & CD.	α α	00 δ	PD.	HP.	UA.	Notae
41	Cetus		69	- o ⁰ 355	2 ^h 16 ^m 8	- 0° 4′		5.5	5.8	6°8 Kr. 193.
42			70	- I 322	2 17.1	- 1 20		5.6	5.9	
43			71	- 3 374	2 19.9	- 3 14		6.3	6.5	N.
44		Q	72	-12 451	$2\ 21.1$	-12 44		4.9	4.6	
45		52	73	+ 7 388	$2\ 22.8$	+81	4.5	4.3	4.4	
46				- o 378	$2\ 25.6$	- 0 11		5.9	6.5	
47				+ I 438	$2\ 26.3$	+ 1 49	5.4	5.4	5.7	
48			75	- 1 353	$2\ 27.1$	- 1 29		5.5	5.9	*
49		σ	76	-15 449	$2\ 27.3$	-15 41		4.8	4.8	
50		ប		-13 479	$2\ 28.9$	-13 35	v	ariabili	s	Ser. IV. 7 ^M -12 ^M .
51		ν	78	+ 4 418	2 30.6	+ 5 9	5.1	4.9	5.1	4°0 Kr. 207.
52		δ	82	- 0 406	234.4	- 0 6		4.1	4.0	
53		8	83	12 5 0 1	234.7	-12 18		5.1	4.6	
54			84	- I 377	$2\ 36.1$	- 1 7		5.8	6.2	
55		2	86	+ 2 422	2 38.1	+ 2 49	3.8	3.4	3.2	
56		π	89	-14 519	2 39.4	-14 17	ļ	4.4	4.1	
57		μ	87	+ 9 359	2 39.5	+ 9 42	4.4	4.3	4.3	
58		λ	91	+ 8 455	254.4	+ 8 31	5.0	4.7	4.8	magn. fundament.
59		α	92	+ 3 419	2 57.1	+ 3 42	2.9	2.8	2.4	6°8 Kr. 250.
() o			94	- I 457	3 7.7	- 1 34	1	5.1	5.3	
6 r		×	96	+ 2 518	3 14.1	3 0	5.2	5.0	5.1	
62	Pisces	ω	28	+ 6 5227	23 54.2	+ 6 19	4.3	4.0	4.0	
63		δ	63	+ 6 107	0 43.5	+72	4.7	4.5	4.4	4 ^c 9 Kr. 61.
64		E	7.1	+ 7 153	0 57.8	+ 7 21	4.7	4.5	4.2	
65	•	x	84	- -20 I72	1 6.1	+20 30	4.7	4.9		4°4 Kr. 93.
66		ζ	86	+ 6 { 174 175	1 8.5	$+7\left\{\frac{3}{2}\right\}$	5.5 6.6	5.4	4.8	
67		f	89	+ 2 185	1 12.6	+ 3 5	5.6	5.4	5.2	
68		μ	98	+ 5 194	1 24.9	+ 5 38	5.1	5.0	5.0	
69		η	99	+14 231	1 26.1	+14 50	4.1	3.8		
70		ν	106	+ 4 293	1 36.2	+ 4 59	4.7	4.5	4.5	= 51 Ceti. `
7 I		o	110	+ 8 273	1 40.1	+ 8 39	4.6	4.5	4.3	
72		ä	111	+ 2 290	1 48.4	+ 2 42	4.9	4.8	4.7	j
73		α	113	+ 2 317	1 56.9	+ 2 17	4.1	3.8	3.8	
74	Pegasus	$ \psi $	84	+24 4865	23 52.7	+24 35	4.8	4.7		6°8 Kr. 2139.
75		7	88	+14 14	0 8.1	+14 38	3.3	2.8		
76	Andromeda	α	21	+ 28 4	0 3.2	+28 32	2.4	2.1		≡ δ Pegasi.
77		5	34	+23 106	0 42.0	+23 43	4.4	4.2		4°7 Kr. 59.
78	Aries	y	5	+18 243	1 48.0	+18 48	4.2	3.9	3.8	
79		β	6	+20 306	1 49.1	+20 19	3.0	2.8	2.7	
80		α	13	+22 306	2 1.5	+22 59	2.2	2.2		1
81	•	3	48	+20 484	2 53.5	+20 56	4.8	4.7	5.0	0
82		δ	57	+19 477	3 5.9	+19 21	4.7	4.6		V .
83	Eridanus	$ au^1$	1	-19 518	2 40.4	-19 0		4.7	4.5	≡ 90 Ceti.
84		η	3	-9 553	2 51.5	- 9 18		4.0	3.7	
85		τ^3	11	-24 1387	2 58.0	-24 1	1	4.1	4.1	
86		5	13	- 9 624	3 11.0	- 9 11		4.8	4.9	
87		74	16	-22 584	.3 15.1	-22 7		4.0	3.4	

^{*} u Ceti in Bode "Uranographia" et Oudemans "Beobachtungen".

Num.	Constellatio	Bay.	Fl.	B & CD.	α 19	00 δ	PD.	HP.	UA.	Notae
88 89	Eridanus	ε	17 18	- 5° 674 9 697	3 ^h 25 ^m .7 3 28.2	- 5° 25′ - 9 48		4.7 3.8	4.7 3.6	UA: υ Erid.
90 91 92	Taurus	0 :5	1 2 10	+ 8 511 + 9 439 - 0 572	3 19.4 3 21.7 3 31.8	+ 8 41 + 9 23 + 0 5	3.9 4.0	3.8 3.8 4.4	3.4 3.5 4.5	– Kr. 279.

T Ceti	C Sr V	3 5 3 5	6 6 6	9		11	et et	4 2 8	7	
	Y.	• •	O	9	10	11	et	δ		

	· . T																								-						
o Ceti	A													48																	
	Ве	•	•	34	35	36	•	•	41	42	43	45	•	48	51	52	55	•	•	59	72	73	•	•	84	et	I 2	32	38	47	67
	H			34		•	37	•	4 I	42	43	45.	46	48	5 I	52	55	57	58	59	•	73	79	•		et	54				
	Hd	18	•	•	•	•	37	40	4 I	42	43	45	46	48	5 I	52	55	57	58	59		73	79	80							
	Hn	•	•	•	•	•	•	•	•	42	•	•	•	•	5 I	52	55	•	•	59	72	73	•		•						
	0	18	25	•	•	•	37	•	•	•	43	•	•	48	•	5 2	55		•	59	•	73		•	84	et	26	7 I			
	P	•	25	•	35	36	37	40	4 I	42	43	45	•	48	51	52	•	•	•	59	72	73	•	•	•						
	S	•		•	•		•	40	•	•	•	45			51	52	55	57	58	59		73	79	•	•						
	Sb	•		•	•	•	•	40		42		45	•	•	5 I	52	55	•	•	59											
	Sr			•	35		37		4 I	42	•	45		•	51	52	55	57	58	59				•							
	St	•	•	•	•	•	•	•		•		•	•			52	5.5	•	•	59		73		•							
	W	•			35		37	•			43	45		48	5 I	52	55		•	59		73				et	76				
	Y		•	•	35									•						59							•				

A practerea adhibebat : ι et β Aurigae, β Tauri, ε Pegasi, β Ursae Mai.

Hd ,, ,, β Aurigae, α Gemin., α et β Tauri

Ο ,, , ; β Aurigae, β Tauri

Charta III.

Q Persei; Periodus irregularis.
 β Persei; Algol, Periodus: 2^d 20^h 48^m 55^s 425 (Inaequ. period.).

Num.	Constellatio	Bay.	Fl.	ві	Э.	α 19	οο δ	PD.	HP.	UA.	Notae
1	Cassiopeia	β	11	+580	3	0h 3m8	+580 36'	2.6	2.4		
2	•	α	18	+55	139	0 34.8	+55 59		, 2.1 variabil	is	$2^{\text{M}}_{\cdot}2-2^{\text{M}}_{\cdot}8$; $4^{\text{c}}_{\cdot}8$ Kr. 52.
3		17	24	+57	150	0 43.0	+57 17	3.8	3.6	1	7.7 7.0, 4.0 12. 02.
4		ĺγ	27	+59	144	0 50.7	+60 11	2.5	2.2		
5		9	33	+54	236	1 5.0	+54 37	4.6	4.6		
6		δ	37	+59	248	1 19.3	+59 43	3.0	2.8		
7		3	45	+62	320	1 47.2	+63 11	3.6	3.4		
8	Andromeda	g	42	+46	² 75	1 3.7	+46 43	4.5	4.4		
9		β	43	+34	198	1 4.1	+35 5	2.3	2.2		5°5 Kr. 91.
10		\boldsymbol{v}	.50	+40	332	1 30.9	+40 54	4.3	4.1		
11		γ	57	+41	395	1 57.8	+41 51	2.4	2.3		5°5 Kr. 160.
I 2	Perseus	v		+47	467	1 31.9	+48 7	3.8	3.8		51 Androm., Fl. et BAC.
13		φ		+49	444	1 37.4	+50 11	4.4	4.1		54 ,, , ,,
14		9	13	+48	746	2 37.4	+48 48	4.4	4.3		
15		27	15	+55	714	243.4	+55 29	3.9	3.9		6°4 Kr. 229.
16			16	+37	646	244.2	+37 55	4.5	4.1		
17		T	18	+52	64I	2 47.2	+52 21	4.2	4.1		
18		π	22	+39	180	252.4	+39 16	4.9	4.5	8	
19		γ	23	+52	654	257.5	+53 7	3.2	3.0		
20		Q	25	+38	630	258.8	+38 27	7	ariabil:	is	$3^{\text{M}} 4 - 4^{\text{M}} 2$; 6° o Kr. 252. $2^{\text{M}} 3 - 3^{\text{M}} 5$.
2 I		β	26	+40	673	3 1.7	+40 34	, v	ariabil	is	2 [™] 3-3 [™] 5.
22		ı		+49	857	3 1.8	+49 14	4.2	4.2		
23		ж	27	+44	631	3 2.7	+44 29	4.0	4.1		
24		ω	28	+39	724	3 4.8	+39 14	4.7	4.9		6°2 Kr. 263.
25		α	33	+49	917	3 17.2	+49 30	2.2	1.9		
26		δ	39	+47	876	3 35.8	+47 28	3.3	3.1		
27		0	38	+31	642	3 38.0	+31 58	3.9	3.9	-	
28		ν	41	+42	815	3 38.4	+42 16	4.0	3.9	2	
29				+30	582	3 45.8	+30 53	6.5	6.1		magn. fundament.
30		ζ	44	+31	666	3 47.8	+31 35	3.1	2.9		
31		X		+30	591	3 49.1	+30 46		ariabil:	is	*
32		8	45	+39	895	3 51.1	+39 43	3.2	2.9		
33		ξ	46	+35	775	352.5	+35 30	4.3	4.1		
34		λ	47		1101	3 59.1	+50 5	4.5	4.2		
35		c	48	+47	939	4 1.4	+47 27	4.4	3.9		
36		M	51	+48	1063	4 7.6	+48 9	4.3	4.3		H

^{*} X Persei esse variabilem vide AN. 3491 et 3577 necnon AJ. 434 et 462; periodus fere $7^{9}/_{8}$ annorum; variatio $6^{1}/_{2}^{M} - 7^{1}/_{2}^{M}$?

Num.	Constellatio	Bay.	Fl.	BD.		α 19	δ	PD.	HP.	UA.	Notae
37	Triangulum	α	2	+280	312	1 ^h 47 ^m 4	+29° 6′	3.7	3.6	, i	
38		β	4		381	2 3.6	+34 31	3.3	3.0		
39		δ	8		395	2 10.9	+33 47	5.1	5.1	The state of	
40		7	9		397	2 11.4	+33 23	4.3	4.1		
41	Aries	γ	5	+18	243	1 48.0	+18 48	4.2	3.9	3.8	U. A.
42		β	6	+20	306	149.1	+20 19	3.0	2.8	2.7	
43		α	13	+22	306	21.5	+22 59	2.2	2.2		
44			41	+26	47 I	2 44.1	+26 51	3.7	3.6		
45		8	48	+20	484	253.5	+20 56	4.8	4.7	5.0	
46		δ	57	+19	477	3 5.9	+19 21	4.7	4.6		
47	Taurus		17	+23	507	3 38.9	+23 48	4.1	3.8		
48		q	19	+24	547	3 39.3	+24 10	4.6	4.3		
49			20	+23	516	3 39.9	+24 4	4.2	4.1		
50			23	+23	522	3 40.4	+23 38	4.4	4.3		
5 I		η	25	+23	541	3 41.5	+23 48	3.1	3.0		
52			27	+23	557	3 43.2	+23 45	4.0	3.9		

ρ Persei	G			_				25	3 20	32	,					
~ L	L	•		•	•	2(. •	2				,				
	Ö	•	1	•	•					**		38	_			
	_	•		•	23			2	-	_		-	-	o et		
	P	1	0 1	18	23			•		32	3 3			o et	19	22 33
	S	•		•	23	2 (5 2	7 2	3.	•	3	7 3	β.			
	Sr		, 1	t 8	23	•	•	•		•	•					
	St	1	б		23	26	2	7 28	3.	32	· .	38	з.			
												-				
	. 1															
β Persei	A	1	1	I	19	20	23	•	26	28	30	32	37		42	β et ε Aurigae, γ Pegas
	Ве	1	1	I	19	20	•	•	26	•	•	32	•	38	•	et 4 6 12
	C					20			26	•				38	•	
	H		1	τ		20	23		26		30	32	37		42	ι Aurigae
	Hn		1	ĭ	10	20	23		26	28	•	•	37	38	42	4.3
	0		τ		-	20	23	•	26		30	32	•			et 40
	P		11		•	20	23	25	26		•	32	37	5.	Τ-	4
	ŝ		11		_	20	23	25	26	28	•	_		20	40	
		•		•	19		•	•	_	20	•	32	37	38	42	
	Sr	•	•		•	20	•	•	26	•	•	32	37	38	•	
	St	•	•		•	20	•	25	26	•	30	32	37	38	•	
	w	•	1	I	19	20	23	25	26	•	•	32	•	38	42	
	Wg		1	ſ	•	20	•	•	26	•	•		37	•	•	
	Y					20			26	28		32	37	38	42	

Charta IV.

1411 \(\lambda \) Tauri; Typus Algol, Periodus: 3\(^d\) 22\(^h\) 52\(^m\) 2 (Inaequ. period.).

Num.	Constellatio	Bay.	Fl.	BD.	19. α	οο δ	PD.	HP.	UA.	, Notae
1	Taurus	0	1	+ 80 511	3 ^h 19 ^m 4	+ 80 41'	3.9	3.8	3.4	– Kr. 279.
2		į į	2	+ 9 439	3 21.7	+ 9 23	4.0	3.8	3.5	
3		f	5	+12 486	3 25.4	$+12\ 36$	4.5	4.3	4.3	J+).
4		1	17	+23 507	3 38.9	$+23 \ 48$	4.1	3.8		<u> </u>
5		q	19	+24 547	3 39.3	+24 10	4.6	4.3		
6		1	20	+23 516	3 39.9	+24 4	4.2	4.1		
7		l u	29	+ 5 539	3 40.4	+ 5 44	5.6	5.2	5.7	
8				+ 6 582	3 40.4	+ 6 53	7.5	7.2	0,,	
9			23	+23 522	3 40.4	+23 38	4.4	4.3		
10				+ 6 583	3 40.8	+ 6 30	6.1	6.1	6.4	
11		η	25	+23 541	3 41.5	+23 48	3.1	3.0		
12		'		+ 8 567	3 41.7	+ 8 39	7.3	7.4		
13		e	30	+10 486	3 42.8	+10 50	5.3	5.0	5.3	
14				+ 9 494	3 43.1	+ 9 20	7.0	7.0	6.8	
15			27	+23 557	3 43.2	+23 45	4.0	3.9		
16				+ 8 574	3 44.3	+96	7.1	6.8		
17				+12 516	3 45.7	+12 45	6.6	6.2	6.4	
18			31	+ 6 594	3 46.7	+ 6 14	6.1	5.7	5.9	
19		x	l	+ 7 560	3 47.8	+ 7 29		ariabili	•	*
20			ł	+ 8 596	3 49.4	+ 8 54	7.8	7.3	1	
2 I				+ 5 564	3 51.7	+ 5 45	6.4	6.0	6.4	
22		λ	35	+12 539	3 55.1	+12 12	1	ariabili		3 ^M 4-4 ^M 2.
23				+ 9 528	3 56.3	+ 9 43	6.0	5.6	5.9	
24		ν	38	+ 5 581	3 57.8	+ 5 43	4.2	3.9	3.9	
25				+ 7 592	3 58.5	+ 7 55	5.8	5.4	5.9	
26		μ	49	+ 8 657	4 10.1	+ 8 39	4.6	4.3	4.4	
27		γ	54	+15 612	4 14.1	+15 23	4.0	3.8		
28		δ	61	+17 712	4 17.2	+17 18	4.2	3.9		≣ δ' н.
29		3	74	+18 640	4 22.8	+18 58	3.9	3.7	1	
30		₽ ¹	77	+15 631	4 22.9	+15 44	4.0	4.2		
31		₽2	78	+15 632	4 22.9	+15 39	3.8	3.6		
32		d	88	+ 9 607	4 30.1	+ 9 57	4.4	4.3	4.6	
33		α	87	+16 629	4 30.2	+16 18	1,2	1.1		– Kr. 376.
34		С	90	+12 618	4 32.6	+12 19	4.7	4.2	4.5	≡ c′ H.
35		τ	94	+22 739	4 36.2	+22 46	4.5	4.3		
36		β	112	+28 795	5 20.0	+28 31	2.0	1.7		$\equiv \gamma$ Aurigae.
37	•	ζ	123	+21 908	5 31.7	+21 5	3.3	3.0		
38	Perseus	0	38	+31 642	3 38.0	+31 58	3.9	3.9		
39		ζ	44	+31 666	3 47.8	+31 35	3.1	2.9		
40	Auriga	l	3	+32 855	4 50.5	+33 0	2.9	3.0		– Kr. (34).

^{*} UA. pag. 230, Taurus 22; Ch. III. 61/2 M-8 M.

Num.	Constellatio	Bay.	·Fl.	BD.	α 19	οο δ	PD.	HP.	UA.	Notae
41	Orion	π^3	1	+60 762	4 ^h 44 ^m 4	+ 60 47'	3.5	3.3	3.2	
42		π^2	2	+8 777	4 45.2	+ 8 44	4.7	4.3	4.7	1
43		π^4	3	+5 745	4 45.9	+ 5 26	4.0	3.7	3.7	
44		π^5	8	+2 810	4 49.0	+ 2 17	4.0	3.7	3.7	
45		π^1	7	+9 683	4 49.4	+10 0	4.9	4.7	5.0	magn. fundament.
46		1	24	+6 919	5 19.8	+ 6 16	2.1	1.6	1.7	
47		λ	39	+9 879	5 29:6	+ 9 52	3.7	3.5	3.5	

X Tauri	Hn Y	8	1:	2	. : :6 :	20 20											
λ Tauri	A	1	2	•	24		27	29	•								
		I	2	•	24		27	-		•							
	B Be H O P Sk W Y Z	١.			24		•		•	41	43	44					
	H	١.				26	27	29	39								
	0	I			24		27										
	P	1	2	3	24	26	27	29	39	41	•	et	37	40,	α	et γ	Ceti
	Sk	I					•		•							•	
	W		2		24	26	27										
	Y	1	2	3	24	26	27	29		•		et	32				
	Z	I		3		26	27			•							

Charta V.
1768 & Aurigae; Variatio irregularis.

Num.	Constellatio	Bay.	Fl.	BD.	α α	00 δ	PD.	HP.	UA.	Notae
ı	Perseus	γ	23	+520 654	2 ^h 57 ^m .5	+530 7'	3.2	3.0		
2		Q	25	+38 630	2 58.8	+38 27	1	ariabili:	e	3 ^M 4-4 ^M 2; 6°0 Kr. 252.
3		β	26	+40 673	3 1.7	+40 34		ariabili		$\begin{bmatrix} 3 \cdot 4 - 4 \cdot 2 & 0.0 & \text{K1.} & 252. \\ 2^{\text{M}} 3 - 3^{\text{M}} 5 & 0.0 & \text{K1.} \end{bmatrix}$
4		i		+49 857	3 1.8	+49 14	4.2	4.2		2 · 3 - 3 · 5 ·
5		×	27	+44 631	3 2.7	+44 29	4.0	4.1		
6		α	33	+49 917	3 17.2	+49 30	2.2	1.9		
7		δ	39	+47 876	3 35.8	+47 28	3.3	3.1		
8		0	38	+31 642	3 38.0	+31 58	3.9	3.9		
9		ν	41	+42 815	3 38.4	+42 16	4.0	3.9		
10				+30 582	3 45.8	+30 53	6.5	6.1		magn. fundament.
11		5	44	+31 666	3 47.8	+31 35	3.1	2.9		inigii. inidamoni.
I 2		x		+30 591	3 49.1	+30 46	1	ariabili	S	als:
13		8	45	+39 895	3 51.1	+39 43	3.2	2.9		
14		Ę	46	+35 775	3 52.5	+35 30	4.3	4.1		
15		λ	47	+49 1101	3 59.1	+50 5	4.5	4.2		
16		С	48	+47 939	4 1.4	+47 27	4.4	3.9		
17		Įι	51	+48 1063	4 7.6	+48 9	4.3	4.3		
18	Taurus		17	100 405	3 38.9	. 69 40				
19	200100		19	+23 507 +24 547	3 39.3	$+23 \ 48 +24 \ 10$	4.1	3.8		
20		q	20	+24 547 $+23$ 516	3 39.9	+24 10 +24 4	4.6 4.2	4.3		i
21			23	+23 510 $+23$ 522	3 40.4	+24 4 $+23$ 38	4.2	4.1 4.3		
22		27	25	+23 522 $+23$ 541	3 41.5	+23 48	3.1	3.0		
23		η	27		3 43.2	$+23 \ 45$	4.0	1 1		
24		β	112	+23 557 $+28$ 795	5 20.0	$+28 \ 31$	2.0	3.9 1.7		
25		5	123	+21 908	5 31.7	+26 51 +21 5	3.3	3.0		□ γ Aurig.
26	Auriga	ı	3	+32 855	4 50.5	+33 0	2.9	3.0		– Kr. (34).
27		8	7	+43 1166	4 54.9	+43 41		ariabili	S	$3^{M} \circ -4^{M} \circ 5.$
28		5	8	+40 1142	4 55.5	+40 56	3.8	3.8		4°.5 Kr. 427.
29		η	10	+41 1058	4 59.5	+41 6	3.4	3.3		1 4·5 Ki. ±21.
30		α	13	+45 1077	5 9.3	+45 54	0.5	0.2		
31		ν	32	+39 1429	5 44.6	+39 7	4.2	4.2		
32		8	33	+54 970	5 51.3	+54 17	4.0	4.0		
33		β	34	+44 1328	5 52.2	+44 56	2.2	2.0		().
34		9	37	+37 1380	5 52.9	+37 12	2.9	2.7		

^{*} X Persei periodo fere $7^{2}/_{3}$ annorum mutare lucem vide AN. nn. 3491, 3577 et AJ. nn. 484, 462; variatio $6^{1}/_{2}^{M}-7^{1}/_{2}^{M}$?

	2001	, Luc	001	mpo	or cor	uu	•	
ε Aurigae	A	•	13		28	29		β Trianguli
	Be	7	13	26		29	•	et 1 5
	G		•		28	29		•
	H	7	•	•	28	29		
	0		•	26				
	P	7	13	26	28	29	34	
	Sb				28	29		
	Sr		•	•		29		

Charta VI.

1800 W Orionis;

2098 α Orionis; Periodus irregularis.

2213 η Geminorum; Typus Algol, Periodus: 2314 (Inaequal. period.).

2279 T Monocerotis; Max.: 2409633463 (1. April. 1885) + 2740122 E.

2509 ζ Geminorum; Max.: 2410640\ddot603 (3. Ian. 1888) + 10\ddot415382 E.

Num.	Constellatio	Bay.	Fl.	BD.	α 19	00 δ	PD.	HP.	UA.	Notae
_	Perseus	٠, ا	44	+310 666	3h 47m8	+31° 35′	.,,	9.0		
1	rerseus	ζ	1		1		3.1	2.9		
2		8	45	+39 895	3 51.1	+39 43	3.2	2.9	. 7	
3		\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	46	+35 775	3 52.5	+35 30	4.3	4.1		
4	Taurus	1 2	54	+15 612	4 14.1	+15 23	4.0	3.8		
5		δ	61	+17 712	4 17.2	- ·17 18	4.2	3.9		≡ δ' H .
6		8	74	+18 640	4 22.8	+18 58	3.9	3.7	- 8	
7		9.1	77	+15 631	4 22.9	+15 44	4.0	4.2		
8		.J.2	78	+15 632	4 22.9	+15 39	3.8	3.6	10	
9		α	87	+16 629	4 30.2	+16 18	1.2	1.1		- Kr. 376.
10		β	112	+28 795	5 20.0	+28 31	2.0	1.7		≡γ Aurigae.
11		ζ	123	+21 908	5 31.7	+21 5	3.3	3.0		, ,
12	Eridanus	ν	48	- 3 834	4 31.3	- 3 33		4.0	3.8	
13		μ	57	- 3 876	4 40.5	- 3 26		4.0	4.0	
14		ω	61	- 5 1068	4 48.0	- 5 37		4.5	4.7	
15		β	67	- 5 1162	5 2.9	- 5 13		2.9	2.8	
16	Auriga	ι	3	+32 855	4 50.5	+33 0	2.9	3.0		-Kr. (34).
17	J	8	7	+43 1166	4 54.9	+43 41	1	ariabili	s	3 ^M ·0−4 ^M ·5·
18		ζ	8	+40 1142	4 55.5	+40 56	3.8	3.8		4°5 Kr. 427.
19		η	10	+41 1058	4 59.5	+41 6	3.4	3.3		4 J
20		α	13	+45 1077	5 9.3	+45 54	0.5	0.2		
21		ν	32	+39 1429	5 44.6	+39 7	4.2	4.2		
22		β	34	+44 1328	5 52.2	+44 56	2.2	2.0		
23	•	9	37	+37 1380	5 52.9	+37 12	2.9	2.7		
24	Orion	π^3	1	+ 6 762	4 44.4	+ 6 47	3.5	3.3	3.2	
25		π^2	2	+ 8 777	4 45.2	+ 8 44	4.7	4.3	4.7	
26				+ 0 871	4 45.6	+ 0 59	7.0	6.7	6.9	
27		π^4	3	+ 5 745	4 45.9	+ 5 26	4.0	3.7	3.7	
28			5	+ 2 800	4 48.2	+ 2 21	5.5	5.7	6.0	
29			"	+ I 847	4 48.8	+ 1 24	6.9	6.5	6.9	
30		7T5	8	+ 2 810	4 49.0	+ 2 17	4.0	3.7	3.7	
31			0	+ x 857	4 50.8	+ 1 28	7.2	6.9		
32		π^6	10	+ 1 872	4 53.4	+ 1 34	4.6	4.8	4.7	– Kr. 420.

Num.	Constellatio	Bay.	Fl.	BD.	α	οο <i>δ</i>	PD.	HP.	UA.	Notae
33	Orion			+ 00 923	4 ^h 56 ^m .7	+ 0° 35′	6.2	6.2	6.6	– Kr. 432.
34				+ 1. 886	4 56.8	+ 1 28 {	6.8	6.2	6.5	
		w		•		+12	8.0	 ariabili	ie ·	6 ^M -7 ^M ; 8°8 Kr. 438.
35 36		W		+ 0 939 + 0 975	$\begin{array}{cccc} 5 & 0.2 \\ 5 & 6.6 \end{array}$	+ 0.55	6.1	6.1	6.3	0-7 , 0.8 Ki. 400.
37		Q	17	+ 0 975 + 2 888	5 8.1	+ 2 45	4.7	4.7	5.1	
38		4		+ 1 938	5 8.3	+ 1 51	6.4	6.3	6.5	
39		β	19	- 8 1063	5 9.7	- 8 19		0.3	1.0	
		1	22 {	- 0 929	516.4	- 0 31		5.5	6.7	
40		0	(- 0 930	5 16.7	- 0 29		4.6	5.1	
41		p	27	— 1 886	5 19.4	- 0 59		5.1	5.6	* 5°.7 Kr. 469.
42		η	28	- 2 1235	5 19.4	- 2 29		3.9	3.4	
43		7	24	+ 6 919	5 19.8	+ 6 16	2.1	1.6	1.7	İ
44		δ.	34 39	- o 983	5 26.9	- 0 22	3.7	2.6 3.5	2.3 3.5	
45 46		λ 91	41	+ 9 879 - 5 1315	5 29.6 5 30.4	$\begin{vmatrix} + 9 & 52 \\ - 5 & 27 \end{vmatrix}$	5.1	3.5 4.6	5.0	
40		92	43	- 5 1315 - 5 1319	5 30.4	-527 -529		5.3	5.0	
48		ı	44	- 6 1241	5 30.5	- 5 59		2.8	2.9	
49		8	46	- I 969	5 31.1	- 1 16		1.7	1.8	
50		σ	48	- 2 1326	5 33.7	- 2 39	ļ	3.8	4.0	
51		ζ .	50	- 2 1338	5 35.7	- 2 0		1.9	1.8	
52		χ1	54	+20 1162	5 48.5	+20 16	·4.7	4.6		
53		α	58	+ 7 1055	5 49.8	+ 7 23		ariabili		$1^{\text{M}}_{-1}^{\text{M}}_{\cdot 4}$; - Kr. 531.
54		μ	61	+ 9 1064	5 56.9	+ 9 39	4.4	4.1	4.7	magn. fundament.
55		χ2	62	+20 1233	5 58.0	+20 8	4.8	4.8		
56		v E	67 70	+14 1152	6 1.9	+14 47	4.6	4.7	4.7	
57 58		Ë	73	+14 1187	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	+14 14	4.6 5.8	4.4 5.4	4.7	
59		k	74	+12 1081	6 10.8	+12 18	5.4	5.1		
60		1	75	+ 9 1173	6 11.6	+ 9 59	5.7	5.4	5.9	
61	Gemini		1	+23 1170	5 58.0	+23 16	4.4	4.4		M
62		η	7	+22 1241	6 8.8	+22 32	V	ariabil	is	$3^{\text{M}} 2 - \begin{cases} 3^{\text{M}} 7; & 6^{\circ} \circ \text{ Kr. } 563. \end{cases}$
63		μ	13	+22 1304	6 16.9	+22 34	3.1	3.2		6°5 Kr. 580.
64		ν	18	+20 1441	6 23.0	+20 17	4.5	4.2		
65		γ.	24	+16 1223	6 31.9	+16 29	2.3	1.9		0 405
66		. ε	27 30	+25 1406	6 37.8	+25 14	3.2	3.2	50	5°.7 Kr. 627.
67 68		ξ.	31	+13 1390	6 38.3 6 39.7	$\begin{vmatrix} +13 & 20 \\ +13 & 0 \end{vmatrix}$	4.6 3.6	4.6 3.5	5.2	
69		d	36	+21 1405	6 45.6	+21 53	5.6	5.3		T .
70		9	34	+34 1481	6 46.2	+34 5	3.9	3.5		I.
7 I		е	38	+13 1462	6 49.0	+13 19	4.8	4.6		
72		ζ	43	+20 1687	6 58.2	+20 43		ariabil	is	3 ^M 7-4 ^M 5.
73	,	τ	46	+30 1439	7 4.8	+30 25	4.6	4.5		4°3 Kr. 680.
74		λ	54	+16 1443	7 12.3	+16 43	3.8	3.7		
75		δ	55	+22 1645	7 14.2	+22 10	3.7	3.5		
76		L	60	+28 1385	7 19.5	+28 0	4.0	3.9		5°0 Kr. 702.
77		α	66	+32 1581	7 28.2	+32 6	2.0	1.6		Co rr moo
78		v	69	+27 1424	7 29.8	+27 7	4.3	4.3		5°8 Kr. 722.
79 80		β	78	+24 1759 $+28$ 1463	7 38.4 7 39.2	$+24 38 \\ +28 16$	3.7	3.8		4°0 Kr. 745.

^{*} BD. -1°882: -0°6; +1′; 7^M2.

Num.	Constellatio	Bay.	Fl.	BD.	α α	00 δ	PD.	HP.	UA.	Notae
81	Monoceros			+ 6 ⁰ 1172	6 ^h 10 ^m 3	+ 60 6'	6.4	5.9	6.5	ÚA: Orionis.
82				+ 7 1216	6 11.6	+ 7 6	6.8	6.4	6.8	·
83				+ 5 1168	6 11.9	+ 5 8	6.0	5.8	6.2	" "
84			8	+ 4 1236	6 18.5	+ 4 39	4.6	4.2	4.8	" ," ε Monoc.
85			-	+ 8 1316	6 18.6	+ 8 56	6.5	6.2	6.6	,, 0 1.10.100.
86		т		+ 7 1273	6 19.8	+ 7 8		ariabili		5^{M8} 7^{M4} . 8.2
87					$6\ 20.1$	+11 16				cum. NGC. 2224.
88				$+ 7 \begin{cases} 1312 \\ 1314 \end{cases}$	6 24.5	$+7$ ${12 \atop 11}$		8.1		$BD. \begin{cases} 8 \\ 8 \\ 5 \end{cases}$
89				+ 8 1367	624.6	+ 7 59	1	6.8	İ	BD. 7 [™] 8.
90				+11 1209	6 26.2	+11 37	5.4	5.3		
91					6 26.3	+51	Ì			cum. NGC. 2239.
92			13	+ 7 1337	6 27.5	+724	4.7	4.4	5.0	
93			14	+ 7 1357	629.4	+ 7 39	6.7	6.4	6.9	
94		S	15	+10 1220	6 35.5	+ 9 59	V.	ariabili	is?	(4 ^M 9-5 ^M 4).
95			16	+ 8 1486	6 41.1	+ 8 42	6.2	5.9	6.5	
96			17	+ 8 1496	6 41.9	+89	4.8	4.9	5.3	5°.5 Kr. 631.
97			22	- 0 1636	7 6.8	- 0 20	-	4.2	4.6	UA: δ Monoc.
98	Canis Minor	3	2	+ 9 1643	7 20.2	+ 9 29	5.0	5.1	5.6	
99		β	3	+ 8 1774	7 21.7	+ 8 29	3.2	3.1	3.0	
100		γ	4	+ 9 1660	7 22.7	+ 9 8	4.3	4.6	5.1	A: Fl. 5.
101	i i	α	10	+ 5 1739	7 34.1	+ 5 29	0.8	0.5	1.2	II. W

W Orionis .	Hn Sr Y	28 · · 32 33 34 36 · 29 31 32 · · 36 · · · · 33 34 ·
α Orionis	A Be H L O Sb St Z	9 20 39 . 80 101 et Saturnus 9 20 39 43 80 101 et 10 77, α Bootis, α Canis Mai., α Lyrae 9 20 39 . 80 101 9 20 3 9 . 80 101 9 20 39 . 80 101 9 . 39 101 9 9 . 39 43 . 101
η Geminorum	Be G P S Sb Sr St	63 . 66 68 70 74 75 79 63 63 64 66 . 70 . et 23 61 . 64 66 . 70 . 63 64 66 . 70 74 63 64 66 68 63 64 66
T Monocerotis	Sr Y	81 82 83 85 81 82 83 .
S Monocerotis	P Sr Y	54 64 68 71 84 90 92 95 . 54 · · · 84 · · · ·

ζ Geminorum	A		64		68	74	7 5	76	78				
5 ,	Be	62				74					et:	70	73
	н					74					-	, •	13
	o	•				74							
N A	.P									•	۵ŧ	6.	- -
Y Y		03				74				79	CL	Οľ	71
l l l	Sr	•	64	•		74	-	•	78	•			
1	St	•	64	•	•	74		• .		79			
Y Y	W	•	•	•	•				78	79			
	Y	•	64	•	•	74	75	76	78	•			
	Z	•	•		•	74	75				et	69	

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Charta VII.

2610 R Canis Maioris; Typus Algol, Periodus: 1^d 3^h 15^m 46^s0.

Num.	Constellatio	Bay.	Fl.	B & CD.	ε α	οο δ	PD.	HP.	UA.	Notae
I	Canis Maior	ζ	1	-30 ⁰ 3038	6 ^h 16 ^m 5	-300 1'		3.0	3.2	
2		β	2	-17 1467	6 18.3	-17 54	l	2.0	2.2	
3		<u>5</u> 1	4	-23 3991	6 27.7	-23 21		4.4	4.5	
4		ξ ²	5	-22 1458	6 30.9	-22 53	1	4.5	4.8	
5		ν^2	7	-19 1502	6 32.3	-19 10		4.3	4.1	– Kr. 615.
6		23	8	-18 1492	6 33.5	-18 9	Ì	4.7	4.9	- Kr. 618.
7				-14 1525	634.7	-14 3		5.0	5.3	- Kr. 621.
8		α	9	-16 1591	6 40.7	-16 35		-1.7	0.1	
9			}	-14 1573	6 41.4	-14 41		5.3	5.7	– Kr. 630.
10				. 3,0	6 41.8	-20 40			$5^{1}/_{2}$	cum. Messier 41.
11			11	-14 1584	6 42.3	-14 19		5.3	5.5	*
12			12	-20 1576	6 42.7	-20 54		5.9	6.6	
13				-18 1591	6 48.9	-18 55		5.5	6.1	
14			15	-20 1616	6 49.2	-20 6		4.7	5.3	
15		9	14	-11 1681	6 49.5	-11 55	l	4.3	4.4	5°4 Kr. 648.
16		01	16	-24 4567	6 50.0	-24 4		4.2	3.9	3 4
17			19	-19 1610	6 51.3	-20 1	1	4.7	4.9	UA: π Canis Mai.
18		μ	18	-13 1741	6 51.5	-13 55	İ	5.2	5.5	4°.6 Kr. 652.
19		i	20	-16 1661	6 51.7	-16 55	1	4.3	4.9	1 7 2 2 2 3 2 2 3
20		8	21	-28 3666	6 54.7	-28 50	Į	1.7	1.8	
2 I			22	-27 3544	6 57.7	-27 47		3.9	3.6	UA: σ Canis Mai.
22		02	24	-23 4797	6 58.8	-23 41	1	3.2	3.4	
23		γ	23	-15 1625	6 59.2	-15 29	0.09	4.2	4.5	ĺ
24		δ	25	-26 3916	7 4.3	-26 14		2.2	2.1	
25				-16 1802	7 5.1	-16 4	1	6.0	6.6	– Kr. 681.
26				-15 1676	7 5.4	-16 4	1	6.7	7.8	1002.
27			28	-26 4073	7 10.8	-26 36	1	3.8	4.2	UA: ω Canis Mai.
28				-15 1734	7 11.7	-15 24	1	5.4	5.9	011. 10 011115 12111.
29			30	-24 5176	7 14.6	-24 46		4.3	4.6	UA: τ Canis Mai.
30				-19 1813	7 14.7	-19 6		6.1	6.6	011. 0 001110 17201.
31				-17 1917	7 14.8	-17 20		6.6	7.0	İ
32		R		-16 1898	7 14.9	-16 12		ariabil	•	5 ^M 9-6 ^M 7.
33		1		-14 1846	7 16.4	-14 10	1	5.6		3.9.0.7.
34		η		-29 4328	7 20.1	-29 6		2.5	2.9	l .
		"						1		
35	Puppis	,		-18 1806	7 17.8	-18 50	1	4.8	5.7	UA: Canis Mai.
36				-15 1810	7 20.1	-16 0	1	5.1	6.0	,, : ,, ,, -Kr. 704.
37				-i8 1825	7 20.4	-18 49		6.3	6.8	n: n n
38				-13 2001	7 20.6	-13 33		5.7	6.4	,, : ,, ,,
39				-17 1980	7 22.7	-17 40	1	5.6	6.2	,, : ,, ,,

^{*} BD. -14° 1579: -0°3, -6'.8; 7°8.

Num.	Constellatio	Bay.	Fl.	B & CD.	α 19	00 δ	PD.	HP.	UA.	Notae
40 41	Puppis			-14 ⁰ 1925 -14 1971	7 ^h 24 ^m ·8 7 29.2 7 32.0	-14° 47′ -14° 18 -14° 15		6.7 5.0	6.8 5.2	6°8 Kr. 720. cum. NGC. 2422.
42 43 44		×		-26 4707 -14 2082	7 34.7 7 35.8	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		3.8 5.3	4.0 5.4	7°4 Kr. 734.
45 46			2 4	$ \begin{array}{c c} -14 & 2193 \\ 2194 \\ -14 & 2199 \end{array} $	7 40.9 7 41.3	-14 27 -14 19		5.6 5.1	6.4 5.5	

R Canis Maioris	Ве	28	•	31	•	•	•	•	39	40
	Sr	28	30	31	33	•	37	38	•	•
	Y	28	30	31	33	36	37	38	•	40

Charta VIII.

3796 U Hydrae; Periodus irregularis.

4826 R Hydrae; Max.: 2411931 4 0 (17. Iul. 1891) + 425 4 15 E (Inaequ. period.).

Num.	Constellatio	Bay.	Fl.	В &	CD.	α	900 δ	PD.	HP.	UA.	Notae
1	Hydra	α	30	- 8º	2680	9h 22m	- 80 14'		2.3	2.1	
2		v^2	40	-12	3073	10 0.8	1		4.8	4.6	
3				-I2	3101	10 5.2			5.5	5.9	Η: λ¹.
4		λ	41	-11	2820	10 5.7		1	3.8	3.4	- Kr. 873; H : λ ² .
5				-11	2851	10 14.4			6.1	6.4	ŕ
6		μ	42	-16	3052	10 21.			4.0	4.0	– Kr. 885.
7		'-		-12	3181	10 26.1	1		5.4	5.9	
8				-12	3194	10 28.3	1		6.9	7.0	
9			1	-12	3205	10 30.4	1		6.8	6.9	·
10			1	-15	3087	10 31.4			6.2	6.6	
11		1	1	-11	2918	10 31.	1		5.9	6.2	
12		}		-10	3094	10 32.5			6.5	6.8	
13		U		-12	3218	10 32.0		v	ariabil	•	$4^{\text{M}}_{5} = \begin{cases} 6^{\text{M}}_{1}; & \text{8° 1 Kr. 894.} \end{cases}$
14		φ	2	- r 6	3100	10 33.	7 -16 22		5.2	5.3	(5.5
15		,	_	-11	2925	10 33.9	1	1	5.9	6.4	
16				-13	3196	10 37.			6.7	6.9	
17				-13	3197	10 37.		1	6.5	6.8	1
18		Ъ1	3	-16	3124	10 42.			5.6	5.8	
10				-14	3186	10 42.			6.5	6.7	
20		v	4	-15	3138	10 44.	1		3.3	3.0	– Kr. 906.
2 I				-17	3245	10 46.	1	Ì	6.6	6.8	b ² H. et UA.
22		b^2	6	-19	3125	10 48.	4		5.4	5.4	b ³ ,
23				-19	3134	10 50.	1		6.6	6.9	"
24		lχ	9	-26	8338	11 0.	1		5.1	4.8	UA. et H: χ ¹ *.
25		ψ	45	-22	3515	13 3.			5.3	5.3	
-5 26		1 "	~	-23	10974	13 9.			6.7	6.9	1
27		γ	46	-22	3554	13 13.			3.2	3.2	As-
28		R		-22	3601	13 24.		v	' ariabil	is **	$3^{\text{M}}5$ $5 \cdot 5$ $-9^{\text{M}}7$; 8° o Kr. 1054.
29				-2I	3738	13 30.	1 -21 31		7.1	6.9	UA: Virg.
30				-22	3630	13 31.	1	1	7.0	7.0	_
31				-22	3645	13 36.			6.5	6.6	
32	i e	π	49	1	10095	14 0.			3.4	3.6	
33			50	1	10158				5.3	5.5	R

^{*} CD. $-26^{\circ}8342: +0^{m}6, +0'.5; 6^{M}4 \equiv UA$ et H: χ^{2} .

^{**} Vide etiam Seriem IV.

lum.	Constellatio	Bay.	Fl.	B & CD.	19¢	δ	PD.	HP.	UA.	Notae
34	Leo Maior	8	17	+240 2129	9 ^h 40 ^m 2	+240 14'	3.2	3.1		
35		η	30	+17 2171	10 1.9	+17 15	3.8	3.6	3.7	
36	ŧ.	α	32	+12 2149	10 3.0	+12 27	1.8	1.3		
37		ζ	36	+24 2209	10 11.1	+23 55	3.8	3.8		
38		γ.	41	+20 2467	10 14.5	+20 21	2.5	2.4		
39		1	47	+10 2166	10 27.5	+ 9 49	4.0	3.9	3.9	
10		Q	54	+25 2314	10 50.2	+25 17	4.5	4.3	0.0	
4º		δ	68	+21 2298	10 30.2	+21 4	2.9	2.7		
		9	70		11 9.0	+21 4 $+15$ 59	1	3.4		
12		1	77	+16 2234 + 6 2437	11 16.0	+635	3.6	4.3	4.1	1
13		σ	78	1		+11 5	4.4	4.2	4.0	
14		ı	93	+11 2348	11 18.7		4.3		4.0	
15		م	t .	+21 2358	11 42.8	+20 46	4.8	4.6		
£ 6	<u>.</u> -	β	94	+15 2383	11 44.0	+15 8	2.6	2.3		
+7	Sextans		.8	7 2909	9 47.6	- 7 38		5.1	5.4	UA: γ Sext.
18			15	+ 0 2615	10 2.8	+ 0 7	4.7	4.4	4.9	,, α ,,
19	V		29	- I 2395	10 24.4	- 2 14		5.4	5.5	,, δ ,,
50			30	+ 0 2663	10 25.2	- 0 8	5.4	4.9	5.2	"β"
5 I	Crater	α	7	-17 3273	10 54.9	-17 46		4.3	4.4	– Kr. 915.
2		β	11	-22 3095	11 6.7	-22 17		4.6	4.6	
3		δ	12	-13 3345	11 14.3	-14 14		3.9	3,8	– Kr. (73).
54		γ	15	-16 3244	11 19.9	-17 8		4.3	4.2	1111 (10).
55		9	21	- 8 3202	11 31.6	- 9 15		5.0	5.0	
6	Virgo	ν	3	+ 7 2479	11 40.7	+75	4.2	4.1	4.0	6°.0 Kr. 946.
7		β	5	+ 2 2489	11 45.5	+ 2 20	3.9	3.8	3.7	0.0 K1. 540.
8		π	8	+ 7 2502	11 55.7	+ 7 10	4.9	4.7	4.9	
59		0	9	+ 9 2583	12 0.1	+ 9 17		4.1	4.2	
50		1	15	+ 0 2926	12 14.8	- 0 7	4.3	4.0	4.0	
6 r	·	η	29	1	12 36.6	~ ~ .	4.3	3.0	3.1	
52		8	43	1	12 50.6	-054 + 356	0.0	3.7	3.5	40 77 4040
53	0.19	ε	47	1	12 50.6	+11 30	3.6	2.9	6,6	6°5 Kr. 1018.
54		9 ·	51	+11 2529			3.1		4 17	İ
55		J	53	- 4 3430	1	-5 0		4.3	4.7	
56	1 1 1		1	-15 3613	13 6.7 13 8.8	-15 39		5.1	5.3	ì
57			55	-19 3651		-19 25		5.6	5.8	
58			57	-19 3653	13 10.5	-19 25	1	5.4	5.7	
59			61	-17 3813	13 13.2	-17 45		4.8	5.3	0
			63	-16 3650	13 17.7	-17 13		5.4	5.5	5°.6 Kr. 1046.
70 .		α	67	-10 3672	13 19.9	-10 38		1.1	1.5	
71			69	-15 3668	13 22.1	-15 27		5.0	5.0	
72	,		73	-17 3877	13 26.7	-18 13		5.9	6.2	
73 74	_	5	75 79	- 14 3739 + 0 3076	13 27.5 13 29.6	-14 51 $-0 5$	3.6	5.7 3.4	6.0 3.6	
	Comme						J.0			
75 76	Corvus	α	$egin{array}{c} 1 \\ 2 \end{array}$	-24 10174	12 3.3	-24 10		4.2	4.2	
	0.03	3	ł	-21 3487	12 5.0	-22 4		3.3	3.3	1
7 8		γ ,	4	- 16 3424	12 10.7	-16 59		2.7	2.5	1
		ζ	5	-21 3514	12 15.4	-21 40		5.4	5.3	
79	7.7	δ	7	-15 3482	12 24.7	-15 58		3.1	3.0	
30 2-		η	8	-15 3489	12 26.9	-15 38		4.3	4.5	
3r		β	9	-2I 340T	12 29.1	-22 51		3.0	2.6	
32				-19 3629	12 58.4	-20 3		5.8	5.9	UA: Virg.
3	Coma Beren.		36	+18 2682	12 54.0	+17 57	4.8	5.0		6°5 Kr. 1022.
4	l .		42	+18 2697	13 5.1	+18 3	4.6	4.3	4.5	

U Hydrae															
R Hydrae	E H Hd S Sr St W	. 2 . 2 . 2 . 2 . 2 . 1 2	5 27 5 27 5 27 5 27 5 27 5 27 5 27	3° 3°	67 67 67	68 68 :	72 72	et et et et et	26 42 31 32 78 4	6 66 64 75	μ	et	109	Virg. et	с.

Charta IX.

5374 δ Librae; Typus Algol, Periodus: 2^d 7^h 51^m 22^s8.

Num.	Constellatio	Bay.	Fl.	BD.	19 α	00 δ	PD.	HP.	UA.	Notae
1	Virgo	μ	107	- 5° 3936	14 ^h 37 ^m .8	- 5º 13'		3.8	4.0	
2	Libra	μ	7	-13 3986	14 43.8	-13 44		5.4	5.7	
3		α	9	-15 3966	14 45.3	-15 38		3.0	3.0	Fl. 8: $-0^{\text{m}}2$, $+2.6$; $6^{1}/4^{\text{M}}$
4		ĺ	13	-II 3827	14 49.0	-11 29		5.9	6.1	UA et H: ξ^1 .
5		Ę	15	-10 3989	14 51.3	-11 0		5.7	5.7	$", ", ", : \xi^2$.
6			16	- 3 3696	14 52.0	- 3 56		4.6	4.8	, , , , ,
7			17	-10 3994	14 52.8	-10 45	İ	6.4	7.2	
8			18	-ro 3999	14 53.5	-10 44		5.8	6.3	
9				- 4 3783	14 53.7	- 4 35		6.0	6.5	
10		δ	19	- 7 3938	14 55.6	-87	V	ariabili	s	5^{M} 0- 6^{M} 2.
11				- 7 3943	14 56.7	- 7 57		7.1	7.0	
12		}		- 7 3944	14 56.8	- 7 11		6.6	6.6	
τ3				- 7 3946	14 57.2	- 7 27		6.7	6.8	
14		ν	21	-15 4026	15 1.1	-15 52		5.4	5.5	6°o Kr. 1144.
15				-10 4055	15 7.8	-10 38		6.6	7.0	
16		β	27	- 8 3935	15 11.6	- 9 1		2.7	3.1	
17		0	29	-15 4083	15 15.4	-15 11		6.1	6.4	
18				-11 3940	15 18.4	-12 1		5.7	6.2	
19		8	31	- 9 4138	15 18.8	- 9 58		4.9	5.5	
20			32	- 16 4089	15 22.6	-16 22		5.8	5.9	≡ ζ¹ H .
21			34	-16 4099	15 25.0	-16 16		5.8	6.0	Ξζ³ H .
22		5	. 35	-16 4110	15 27.3	-16 31		5.6	5.8	Ξζ² Η.
23			37	- 9 4171	15 28.7	- 9 43		4.8	5.5	
24				- 8 4010	15 29.0	- 8 51		5.1	5.6	
25		γ	38	-14 4237	15 29.9	-14 27		4.1	4.4	
26				- 8 \begin{cases} 4031 \\ 4032 \end{cases}	15 33.3	- 8 28		5.9	6.2	

o Librae	С		_	٥	Τ2		TE	τ8	10	23	21	26									
0 23101410		د ا	•	7	~-	•	- 5		- 7	-3											
	5	٠ .	•	•	•	•	•	•	19	23	24	26									
δ Librae	Sr			•	•	13	15	18	19	23	24	26	et	7	11						
4	St	•	6	9	I 2		•		19	•		•	et	2.	De t	ribus	aliis	non	constat	quaenan	n sint.
	W	5	•	•	I 2	•	•	•	19	23	•	•	et	8							
	Y	•	•	•	•	13	•	•	19	23	24	26									
- 1			6	9	•	•	•	•	•	•	•	•								quaenan	

Charta X.

5758 X Herculis; Max.: 2411553^d (4. Iul. 1890) + 92^d.5 E. Irregularit. magnae.

5912 g Herculis; Variatio irregularis.

6181 α Herculis; Variatio irregularis.

6202 u Herculis; Periodus irregularis.

Num.	Constellatio	Bay.	Fl.	BD.	α α	οο <u>δ</u>	PD.	HP.	UA.	Notae
I	Bootes	β	42	+400 2840	14 ^h 58 ^m 2	+40° 47′	3.7	3.5		
2		δ	49	+33 2561	15 11.5	+33 41	3.6	3.6		4°0 Kr. 1154.
3		14	51	+37 2636	15 20.7	+37 44	4.6	4.2		
4		1	52	+41 2609	15 27.3	+41 10	5.1	5.2) ∰ ψ Herc.
5		\ \rangle \{	53	+41 2611	15 28.2	+41 14	5.2	5.0	1 7	6°5 Kr. 1173.
6	Corona	η	2	+30 2653	15 19.1	+30 39	5.2	5.1		
7		β	3	+29 2670	15 23.7	+29 27	4.0	3.7		l'
8		<i>3</i>	4.	+31 2750	15 28.9	+31 42	4.5	4.1		
9		α	5	+27 2512	15 30.5	+27 3	2.6	2.3		
10		5	7	+37 2665	15 35.6	+36 58	4.8	4.5		
11		γ	8	+26 2722	15 38.5	+26 37	4.0	3.7		
I 2		R		+28 2477	15 44.5	+28 28	V	ariabili	is	Ser. III. 5 ^M .8-13 ^M .0
13		δ	10	+26 2737	15 45.4	+26 23	4.8	4.8		
14		×	11	+36 2652	15 47.4	+35 58	5.0	4.8	i i	
15		3	13	+27 2558	15 53.4	+27 10	4.3	4.3		
16		L	14	+-30 2738	15 57.4	+30 7	5.3	4.7	i i	
17		τ	16	+36 2699	16 5.3	+36 44	5.0	4.7		
18	Serpens	δ	13	+11 2821	15 30.0	+10 52	4.1	3.7		
19		ı	21	+20 3138	15 37.1	+20 0	4.8	4.4	4.8	
20		β	28	+15 2911	15 41.6	+15 44	3.8	3.7		
2 I		×	35	+18 3074	15 44.2	+18 27	4.2	4.3	4.4	M _C)
22		R		+15 2918	15 46.1	+15 26	▼	ariabili	is	Ser.II. ${5.6 \atop 7.6}$ -13 ^M ; 7.6 Kr.1198
23		Q	38	+21 2829	15 46.9	+21 17	5.0	5.0	[4°6 Kr. 1199.
24		γ	41	+16 2849	15 51.8	+15 59	4.1	3.8	3.9	
25	Hercules	χ	1	+42 2648	15 49.2	+42 44	4.8	4.7		
26			2	+43 2542	15 51.3	+43 26	5.4	5.6		6°1 Kr. 1206.
27			4	+42 2652	15 52.1	+42 51	6.1	5.5		
28				+47 2288	15 58.5	+47 25	7.2	7.4		
29		x		+47 2291	15 59.7	+47 31	v	ariabili	is	$\begin{bmatrix} 5^{\text{M}}9 \\ 6.3 \end{bmatrix} = \begin{cases} 6^{\text{M}}8 \\ 7.2 \end{cases}$; 7°9 Kr. 1212.
30		υ	6	+46 2142	15 59.7	+46 19	4.9	4.6		07 (7.2
3 I				+47 2300	16 4.0	+47 46	6.8	6.6		
32		φ	11	+45 2376	16 5.6	+45 12	4.5	4.2]	

Num.	Constellatio	Bay.	Fl.	BD.	α α	οο δ	PD.	HP.	UA.	Notae
33	Hercules		14	+44 ⁰ 2549	16 ^h 7 ^m ·2	+440 5'	6.7	6.5		
34	110100100			+42 2683	16 8.5	+42 38	6.0	6.0		
35]	+40 3005	16 16.5	+39 57	5.6	5.3		
36		τ	22	+46 2169	16 16.7	+46 33	4.2	4.0		
37		2	20	+19 3086	16 17.5	+19 23	4.0	3.7		
38			25	+37 2750	16 21.8	+37 36	5.8	5.5		
39				+41 2707	16 23.0	+41 2	7.0	7.0		
40 .		g	30	+42 2714	16 25.4	+42 6	v	' ariabili	s	${4.7 \atop 5.5}$ ${5.4 \atop 6.0}$; 6.5 Kr. 1249.
41		β	27	+21 2934	16 25.9	$+21 \ 42$	3.0	2.9		
42		σ	35	+42 2724	16 30.9	+42 39	4.5	4.3		
43			42	+49 2531	16 36.0	+49 7	5.0	5.1		5°9 Kr. 1261.
44	1	ζ	40	+31 2884	16 37.5	+31 47	3.2	2.9		
45		η	44	+39 3029	16 39.5	+39 7	3.8	3.6		
46		•	52	+46 2220	16 46.3	+46 9	5.0	4.8		
47		s		+15 3063	16 47.4	+15 7	v	ariabili	s	Ser. II. $5^{\frac{M}{9}}$ $\left\{\begin{array}{c} 11^{\frac{M}{5}} \\ 13 \end{array}\right\}$; 6°8 Kr. 1276.
48		8	58	+31 2947	16 56.5	+31 4	4.2	3.8		
49		ď	59	+33 2817	16 57.9	+33 44	5.6	5.3		
50	5	С		+36 2827	17 4.5	+36 4	5.7	5.2		0_0
51		α	64	+14 3207	17 10.1	+14 30	V V	ariabili	s	3 ^M 1-3 ^M 9; -Kr. 1295.
52		δ	65	+25 3221	17 10.9	+24 57	3.5	3.1	1	
53	D 1	π	67	+36 2844	17 11.6	+36 55	3.3	3.3		
54		u	68	+33 2864	17 13.6	+33 12	v	ariabili	is	4 ^M 6-5 ^M 4; 2°6 Kr. 1299.
55		е	69	+37 2864	17 14.2	+37 24	4.8	4.7	1	
56		w	72	+32 2896	17 16.9	+32 37	5.7	5.3	 	
57		Q	75	+37 2878	17 20.2	+37 14	4.4	4.1		
58				+34 2971	17 23.2	+34 47	6.2	5.8		
59		λ	76	+26 3034	17 26.7	+26 11	4.6	4.5		5°0 Kr. 1315.
60		L	85	+46 2349	17 36.6	+46 4	4.1	3.9		
6 r		μ	86	+27 2888	17 42.5	+27 47	3.6	3.5	1	
62		f	90	+40 3233	17 50.0	+40 2	5.2	5.0		i
63		Ð	91	+37 2982	17 52.8	+37 16	4.0	4.0		
64		Š	92	+29 3156	17 53.9	+29 15	4.0	3.7		4°6 Kr. 1351.
65		ν	94	+30 3093	17 54.7	+30 12	4.7	4.3		
66		o	103	+28 2925	18 3.6	+28 45	4.1	3.7		
67	Ophiuchus	L	25	+10 3092	16 49.3	+10 20	4.6	4.3	5.0	
68		×	27	+ 9 3298	16 52.9	+ 9 32	3.4	3.5	3.4	
69		α	55	+12 3252	17 30.3	+12 38	2.5	2.1		
70		β	60	+ 4 3489	17 38.5	+ 4 37	3.1	3.0	2.8	5°0 Kr. 1324.
7 I			72	+ 9 3564	18 2.6	+ 9 33	4.0	3.7	3.6	
72	Lyra	. ×	1	+36 3094	18 16.4	+36 1	4.5	4.3		
73		μ	2	+39 3410	18 20.9	+39 27	5.4	5.1		
74		α	3	+38 3238	18 33.6	+38 41	0.4	0.1		

						-
X Herculis				30	3 I	
	Hn	27	28		31	
	Sr		28	30	3 I	
	Y	١.	28		3 I	

g Herculis	G P Sk Sr St Y	25 25 25	30 30	35 35	38 38	42 42 •	46 • 46	et et et	33			
α Herculis	A B H O P Sb Sr St Z	37 37		48	52 52 52 52 52	61 61	64 64	67	68 68 68 68	70 70 70	et et	9 45
u Herculis	G Sk Sr St Y Z	49 49	55	-	57 57				58	-		

Charta XI.

6189 U Ophiuchi; Typus Algol, Periodus: 20^h 7^m 42.56. Inaequ. period.

6404 Y Ophiuchi; Max.: 2408694 25 (5. Sept. 1882) + 17 1207 E.

Num.	Constellatio	Bay.	Fl.	BD.	α α	၀၀ <i>စီ</i>	PD.	HP.	UA.	Notae
r	Hercules	h	29	+110 3008	16 ^h 27 ^m 9	+11042'	4.9	4.9		4°2 Kr. 1252.
2		α	64	+14 3207	17 10.1	+14 30		ariabili	İs	$3^{\text{M}}_{1}-3^{\text{M}}_{9}$; – Kr. 1295.
3	Ophiuchus	δ	1	- 3 3903	16 9.1	- 3 26		3.2	2.7	7.ºo Kr. 1226.
4		8	2	- 4 4086	16 13.0	- 4 27	k.	3.4	3.3	ř i
5		λ	10	+ 2 3118	16 25.9	+ 2 12	4.1	3.8	3.8	
6		ζ	13	-10 4350	16 31.7	-10 22		2.6	2.6	
7		ı	25	+10 3092	16 49.3	+10 20	4.6	4.3	5.0	
8		ж	27	+ 9 3298	16 52.9	+ 9 32	3.4	3.5	3.4	
9			30	- 4 4215	16 55.8	-44		5.0	5.5	6°6 Kr. 1282.
10				+ 0 3629	17 0.2	+ 0 51	6.1	5.9	6.2	
11				- 0 3224	17 0.4	- 0 45	l	5.6	5.9	
12				- 1 3292	17 1.7	- 1 31		6.3	6.6	
13				- 0 3230	17 3.1	- 0 57	l	5.9	6.3	
14		η	35	-15 4467	17 4.6	-15 36	ĺ	2.6	2.4	
15		. •		+ 0 3649	17 5.1	+ 0 37	7.0	6.9	7.0	
16		j		+ 0 3654	17 7.8	+ 0 29	6.8	6.5	6.8	
17				+ 2 3283	17 11.2	+ 2 18	6.4	6.0	6.4	
18		υ		+ 1 3408	17 11.5	+ 1 19	1	ariabil	is	$6^{\text{M}} \circ -6^{\text{M}} \gamma$.
19			41	- 0 3255	17 11.5	- 0 20		4.8	5.1	
20				+ 1 3411	17 12.6	+ 1 51	7.0	6.6	6.9	İ
2 I				+ 3 3379	17 13.1	+ 3 15	7.0	6.8	7.0	
22		е	66	+11 3156	17 13.9	+10 58	5.0	5.2	5.7	66 Herculis. Magn. fund.
23			7.	+ 2 3296	17 14.7	+ 2 14	6.9	6.9	6.6	6°4 Kr. 1302.
24			1	- 4 4275	17 21.3	- 5 0		4.5	4.5	
25		σ	49	+ 4 3422	17 21.6	+ 4 14	4.4	4.4	4.5	
26				+ 0 3697	17 23.7	+ 0 25	5.6	5.1	5.6	
27				- 5 4450	17 24.4	- 5 50		6.3	6.6	
28				- 0 3300	17 25.3	- 0 58	•	5.4	5.7	
29				+ 2 3337	17 26.4	+ 2 48	5.9	5.6	5.9	
30				- 5 4461	17 28.2	- 5 40		5.5	5.9	
31		α	55	+12 3252	17 30.3	+12 38	2.5	2.1	3.5	
32			57	- 8 4472	17 32.4	- 8 3		4.5	4.7	
33		μ	"	- 7 4487	17 38.4	- 7 2	1	6.2	6.6	
34		β	60	+ 4 3489	17 38.5	+ 4 37	3.1	3.0	2.8	5°0 Kr. 1324.
35				4 3409	17 41.6	+ 5 42	*	0.0	0	cum.
36		N/	62	+ 2 3403	17 42.9	+ 245	4.1	3.7	3.9	
37		Ϋ́	02	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	17 47.3	- 6 7		ariabil		6 ^M 2-7 ^M o.
38		"		1	17 47.3	- 5 14		6.9	7.0	1
				- 5 4519		- 5 14 - 5 54		6.9	1.0	
39		1	i	- 5 4523	1 11 41.9	1 - 9 9 4		0.0	1	I

Num.	Constellatio	Bay.	Fl.	BD.	α α	οο δ	PD.	HP.	UA.	Notae
40	Ophiuchus			- 4 ⁰ 4376	17 ^h 51 ^m 5	- 4º 4'		5.6	5.8	
41		ν	64	- 9 4632	17 53.5	- 9 46		3.4	3.5	
42				- 4 4384	17 54.3	- 4 49		6.0	6.1	· ·
43			66	+ 4 3570.	17 55.3	+ 4 22	4.9	4.8	5.4	
44			67	+ 2 3458	17 55.6	+ 2 56	4.2	3.9	4.2	
45			68	+ 1 3560	17 56.7	+ 1 18	4.6	4.4	5.1	5-1
46				- 5 4560	17 57.4	- 5 21		6.7	6.9	
47		τ	69	- 8 4549	17 57.6	- 8 11	İ	4.9	5.3	
48			70	+ 2 3482	18 0.4	+ 2 32	4.2	4.1	4.2	
49			71	+ 8 3582	18 2.5	+ 8 43	4.8	4.7	5.0	magn. fund.
50			72	+ 9 3564	18 2.6	+ 9 33	4.0	3.7	3.6	
51	Serpens	ν	53	-12 4722	17 15.2	-12 45		4.3	4.6	(nn 150.4600)
52		ξ	55	-15 4621	17 31.9	-15 20		3.5	3.7	$\begin{cases} BD15^{\circ} 4622: \\ 0^{\circ} 10/4 \cdot 0^{\circ} \end{cases}$
53		ζ	57	- 3 4217	17 55.2	- 3 41		4.6	4.9	$\begin{cases} 0^{m}0, -10.4; 6^{M}5. \end{cases}$
54				- 4 4395	18 0.9	- 4 46		6.0	6.0	17 A
55		1 7	58	- 2 4599	18 16.1	- 2 55		3.5	3.5	

U Ophiuchi	C Pr Sr Wg Y		::	12	13	•	17 17 17		20 20 20	2 I
Y Ophiuchi	Hn Sr Y	33 33 33	38 38 38	39 39 •	40 40 40	42 42 42	46 46	-		

Charta XII.

6368 X Sagittarii; Max.: 2404 291 4 78 (16. Aug. 1870) + 7^{4} 01185 E.

 $_{6472}$ W Sagittarii; Max.: 2402849^445 (4. Sept. 1866) $+ 7^459460$ E.

6573 Y Sagittarii; Max.: 2410175d02 (25. Sept. 1886) + 5d7732 E.

Num.	Constellatio	Bay.	Fl.	C & BD.	α α	οο δ	PD.	HP.	UA.	Notae
ı	Ophiuchus	η	35	-15° 4467	17 ^h 4 ^m 6	-15° 36′		2.6	2.4	
2		'	36	-26 12026	17 9.2	-26 27	8	4.5	4.9	UA: A.
3			40	-20 4731	17 15.0	-21 0		4.5	5.1	" : <u>\$</u> .
4		9	42	-24 13292	17 15.9	-24 54		3.2	3.6	$\left\{ \text{CD.} - 24^{\circ} 13288 : \right\}$
5			43	-28 13081	17 17.1	-28 3		5.4	5.8	$-0^{\text{m}}3, +5.7; 6^{\text{M}}8.$
6			44	-24 13337	17 20.3	-24 5		4.1	4.5	UA: b.
7		d	45	-29 13557	17 21.0	-29 47		4.2	4.6	
8				-29 13563	17 21.3	-29 38	٠,	5.9	6.7	
9			51	-23 13412	17 25.3	-23 53	ł	4.8	5.2	UA: c.
10				-26 12152	17 25.5	-26 12		6.0	6.2	
11			1	-27 11850	17 37.0	-27 50		6.4	6.8	
12			58	-21 4712	17 37.4	-21 38		4.8	5.4	
13	Scorpius	υ	34	-37 11638	17 24.0	-37 13		2.7	3.2	
14		λ	35	-37 11673	17 26.8	-37 2		1.8	2.0	
15	Serpens	ξ	55	-15 4621	17 31.9	-15 20		3.5	3.7	$ \begin{cases} BD15^{\circ} 4622: \\ 0^{\circ\circ}0, -10.4; 6^{\circ}5. \end{cases} $
16	Sagittarius	x	3	-27 11930	17 41.3	-27 48	V	ariabili	s	4 ^M 6 ^M .
17				-26 12367	17 42.2	-26 56		6.2	6.7	
18		1		-30 15035	17 52.7	-30 15	ł	5.1	5.4	
19			4	-23 13731	17 53.7	-23 48	1	4.7	5.4	
20				-22 4503	17 55.8	-22 47	1	5.7	6.3	
2 I			7	-24 13793	17 56.7	-24 17		5.6	5.9	
2 2			9	-24 13814	17 57.8	-24 22			6.0	cum. Messier 8.
23		w		-29 14447	17 58.6	-29 35	v	ariabil		4 ^M 8-5 ^M 8.
24		2	10	-30 15215	17 59.4	-30 26		3.0	2.8	
25				-28 14174	18 1.8	-28 28		4.7	5.1	
26				-30 15316	18 3.6	-30 45	1	5.6	5.9	
27				-23 14047	18 5.6	-23 43		5.0	5.7	0 400:
28		μ	13	-21 4908	18 7.8	-21 5		3.9	4.3	4°2 Kr. 1384.
29			14	-21 4916	18 8.3	-21 44		5.6	6.0	5°7 Kr. 1388.
30			15	-20 5054	18 9.3	-20 46		5.3	5.8	– Kr. 1392.
31		ŀ	16	-20 5055	18 9.3	-20 25		5.9	6.6	
32				-18 4864		-18 42	1	6.1	6.5	177
33				-17 5112		-17 25	1	5.9	6.4	
34		1		-27 12684		-27 5		4.7	5.1	
35		δ	19	-29 14834		-29 52		3.0	2.8	W. W.
36		Y		-18 4926		-1854	1	variabi	lis	5 ^M 8-6 ^M 6.

Num.	Constellatio	Bay.	Fl.	C & BD.	19 α	00 δ	PD.	HP.	UA.	Notae
37	Sagittarius	8	20	-34 ⁰ 12784	18 ^h 17 ^m .5	-340 26'		1.8	2.2	
38	Dagittailus	•	21	-34 12/04 -20 5134	18 19.4	-20 36		5.0	5.1	5°0 Kr. 1417.
39		λ	22	-25 13149	18 21.8	-25 29		2.9	2.7	5.0 KI. 1±11.
40				-17 5203	18 22.1	-17 52		6.0	6.6	
41				-18 4982	18 24.3	-18 48		5.9	6.0	
42			- 1	-18 4988	18 25.6	-18 28		5.2	5.5	
43		φ	27	-27 13170	18 39.4	-27 6		3.2	3.7	
44		σ	34	-26 13595	18 49.1	-26 25		2.0	2.4	
45		ζ	38	-30 16575	18 56.3	-30 2		2.8	3.1	
46		τ	40	-27 13564	19 0.7	-27 49		3.4	3.6	

X Sagittarii	M Sr St Y	19 25 2 6 7 9 . 19 25 . 6 7 9
W Sagittarii	M Sr St Y	. 18 25 26 . 9 18 19 . 25 26 34 25 2
Y Sagittarii	M Sr Y	29 30 31 32 33 . 40 41 31 . 33 38 40 41

Charta XIII.

6758 β Lyrae; Min.: 2398590.63 (6.63. Ian. 1855) + 12.90791 E.*

6794 R Lyrae; Max.: $2410559^{4}3$ (14. Oct. 1887) $+46^{4}4$ E.

Num.	Constellatio	Bay.	Fl.	BD.	α α	δ	PD.	HP.	UA.	Notae
	Hercules	l	85	+46° 2349	17 ^h 36 ^m 6	+46° 4′	4.1	3.9		
ı	Hercules	1	86	+27 2888	17 42.5	+27 47	3.6	3.5		
2		μ f	90	+40 3233	17 50.0	+40 2	5.2	5.0		
3		9	91	+37 2982	17 52.8	+37 16	4.0	4.0		
4		Š	92	+29 3156	17 53.9	+29 15	4.0	3.7		4°.6 Kr. 1351.
5		ν s	94	+30 3093	17 54.7	+30 12	4.7	4.3	- 4	4,0 121, 1001.
- 1		0	103	+28 2925	18 3.6	$+28 \ 45$	4.1	3.7		1
7 8		"	103	+43 2892	18 4.5	+43 27	5.3	5.1		
		A	104	+31 3199	18 8.1	+31 22	5.1	5.2		6°5 Kr. 1387.
9		A .	104	731 3199	10 0.1	T01 22	0.1	0.2		0.5 Kd. 1801.
10	Lyra	×	1	+36 3094	18 16.4	+36 1	4.5	4.3		
11		μ	2	+39 3410	18 20.9	+39 27	5.4	5.1		
12		'		+34 3245	18 31.6	+34 22	6.4	6.0		
13			İ	+33 3154	18 33.0	+33 23	5.7	5.6		
14		α	3	+38 3238	18 33.6	+38 41	0.4	0.1		
15		(4	+39 3510	18 41.0	+39 34	5.0	4.8		
16		^ε {	5	+39 3509	18 41.1	+39 30	4.9	4.5		
		. (6	+37 3222	18 41.3	+37 30	4.7	4.2		
17		5 {	7	+37 3223	18 41.4	+37 29	6.2	5.8		
18		l v	9	+32 3228	18 46.2	+32 26	5.4	5.2		
19		β	10	+33 3223	18 46.4	+33 15	1	ariabil	is	3 ^M 4-4 ^M 5·
20		δ^1	11	+36 3307	18 50.2	+36 51	6.0	5.6	1	
2 I		δ^2	12	+36 3319	18 51.0	+36 46	4.4	4.5		6°9 Kr. 1492.
22		R	13	+43 3117	18 52.3	+43 49	-	ariabil	is	4 ^M o-4 ^M 7; 7°5 Kr. 1498.
23		1 2	14	+32 3286	18 55.2	+32 33	3.6	3.3		
24		l	15	+31 3424	18 56.2	+32 0	5.1	5.1		4°3 Kr. 1506.
25			16	+46 2602	18 58.6	+46 48	5.3	5.1	<u> </u>	
26		ı	18	+35 3485	19 3.7	+35 57	5.5	5.2		
27		η	20	+38 3490	19 10.4	+38 58	4.8	4.3		
28		9	21	+37 3398	19 12.9	+37 57	4.6	4.6		
29	Cygnus	β	6	+27 3410 3411	19 26.7	+27 45	 	3.2		7°.2 Kr. 1573.
30		δ	18	+44 3234	19 41.8	+44 53	3.2	2.9		

^{*} Minimum secundarium medium inter bina min. princip.

β Lyrae	A Be G H L O P S S S S S S t	2 2 2	4 4 4	5 • 5 • 5 5 5 5 • •	7 7 7 7		(15 (15 (15	16) 16) 16) 16) 16) 16)	17 17 17 17 17	(20 (20 (20 (20 (20 (20 (20	21) 21) 21) 21) 21) 21) 21)	23 23 23 23 23 23 23 23	· · · · 28		11	27
	W Wg Y Z		4	5	7 7		(15 (15 (15	16) 16)	17 17	(20	21)	23	•	et	24	
R Lyrae	P Sr Y	4	10	-		(15 :	r6) :	17 :	(20	21)	23	25 25 25	26 :	27 27 27		

Charta XIV.

6613 d Serpentis; Periodus: 8472.

6733 R Scuti; Periodus: 71.1? — Inaequalitates magnae.

6984 U Aquilae; Max.: 2410170d15 (20. Sept. 1886) + 7d0240 E.

7124 η Aquilae; Max.: 2396168^d6253 (20. Mai. 1848) + 7^d176381 E.

7149 S Sagittae; Max.: 2406 602 60 (13. Dec. 1876) + 8 38320 E.

Num.	Constellatio	Bay.	Fl.	BD.	19		PD.	HP.	UA.	NT-4
Mulli.	Constenatio	Day.	1.1.	, DD.	α	δ	rυ.	nr.	UA.	Notae
I	Ophiuchus		66	+ 4 ⁰ 3570	17 ^h 55 ^m 3	+ 40 22'	4.9	4.8	5.4	
2			67	+ 2 3458	17 55.6	+ 2 56	4.2	3.9	4.2	
3			68	+ 1 3560	17 56.7	+ 1 18	4.6	4.4	5.1	
4		1	70	+ 2 3482	18 0.4	+ 2 32	4.2	4.1	4.2	
5			71	+ 8 3582	18 2.5	+ 8 43	4.8	4.7	5.0	magn. fund,
6			72	+ 9 3564	18 2.6	+ 9 33	4.0	3.7	3.6	S
7			74	+ 3 3680	18 15.9	+ 3 20	5.0	5.0	5.5	
8				+ 9 3783	18 31.7	+ 9 3	5.5	5.4	5.7	
9		x		+ 8 3780	18 33.6	+ 8 44		ariabili	1	Ser. IV. 6.8-9.0; - Kr. 1452.
10	Serpens	27	58	- 2 4599	18 16.1	- 2 55		3.5	3.5	
11		d	59	+ 0 3936	18 22.1	+ 0 8	v	ariabili	s	5 ^M 0-5 ^M 7.
12		С	60	- 2 4641	18 24.5	-23		5.4	5.8	5°0 Kr. 1426.
13		е		- 0 3521	18 32.5	- 0 24		5.8	6.1	
14		Ð	63	$+4\begin{cases}3916\\3917\end{cases}$	18 51.2	+ 4 4	{ 5.0 5.4	4.5	4.5 4.7	
15	Hercules		111	+18 3823	18 42.6	+18 4	4.4	4.2		
16	Scutum			- 6 4859	18 38.5	- 6 55		6.2	6.7	
17			1	- 6 4869	18 39.3	- 6 38		7.0		– Kr. 1465.
18				- 6 4897	18 41.8	- 6 0	1	6.9		
19				- 4 4582	18 41.9	- 4 51		4.5	4.5	UA: β.
20		R		- 5 4760	18 42.2	- 5 49	v	ariabili	is	$ \begin{array}{c c} & \text{UA: } \beta. \\ & 4^{\text{M}}7 - \begin{cases} 6^{\text{M}} \\ 9 \end{cases}; 5^{\text{c}}8 \text{ Kr. } 1474. \end{array} $
2 I				- 6 4913	18 43.3	- 6 7		6.5	7.0	'3
22		8,		- 6 4922	18 44.3	- 6 2		6.2	6.5	4°7 Kr. 1478.
23			1		18 45.8	- 6 24				neb. Messier 11.
24				- 6 4976	18 51.7	- 5 59		5.1	5.4	UA: η. 5°:1 Kr. 1495.
25	Aquila	1	4	+ 1 3766	18 39.8	+ 1 57	5.1	4.9	5.5	
26			5	- I 3559	18 41.3	-14		5.6	6.2	
27			10	+13 3838	18 54.2	+13 47	6.3	5.8	6.5	
28			11	+13 3841	18 54.5	+13 29	5.4	5.3	5.8	
29		3	13	+14 3736	18 55.1	+14 56	4.3	4.2		
30			12	- 5 4840	18 56.3	- 5 53		4.2	3.8	5°6 Kr. 1507.
31		g	14	- 3 4460	18 57.6	- 3 51		5.4	5.7	W W .
32		V		- 5 4858	18 59.1	- 5 50	V	ariabil		Ser. IV. $6^{M}_{.5} - 8^{M}_{.0}$; $8^{\circ}_{.5}$ Kr. 1513.
33	1	h	15	_ 4 4684	18 59.7	- 4 11	1	5.2	5.6	5°.7 Kr. 1515.

Num.	Constellatio	Bay.	Fl.	BD.	α	οο <u>δ</u>	PD.	HP.	UA.	Notae
34	Aquila	ζ	17	+130 3899	19 ^h 0 ^m ⋅8	+130 43'	3.3	3.0		·
35		λ	16	- 5 4876	19 0.9	- 5 2		3.5	3.3	a TT M M ofort 1500
36		R		+ 8 3970	19 1.6	+85		ariabili		Ser. II. 5 9-11 5; 8 8 Kr. 1520
37			18	+10 3787	19 2.3	+10 55	5.3	5.1	5.6	Olim Y Aquilae. Magn. fund
38			20	- 8 4887	19 7.3	- 8 6		5.2	5.9	
39		ω	25	+11 3790	19 13.1	+11 25	5.4	5.1	5.7	6°8 Kr. 1544.
40			20	- 6 5103	19 14.7	- 6 48	57	7.0 5.3	5.9	0.8 Kr. 1944.
41		A	28	+12 3879	19 15.0	$+12 11 \\ +11 20$	5.7 6.3	5.9	6.6	
42			29 26	+11 3802	19 15.2 19 15.2	-536	0.5	5.9	5.6	
43		f	20	- 5 4936 - 8 4950	19 16.2	- 8 23		6.5	6.9	
44			10	- 7 4942	19 17.7	7 35		6.4	6.7	– Kr. 1552.
45 46		ь	31	+11 3833	19 20.2	+11 44	5.3	5.3	5.6	1 2332
47		δ	30	+ 2 3879	19 20.5	+255	3.7	3.4	3.4	
48		ע	32	+ 0 4206	19 21.4	+ 0 8	4.8	4.8	5.4	
49		U		- 7 4968	19 24.0	- 7 15	1	ariabili	•	$6^{\text{M}}_{\cdot 4} - 7^{\text{M}}_{\cdot 1}$.
50		е	36	- 3 4612	19 25.4	- 3 0		5.1	5.6	4°5 Kr. 1569.
51				- 6 5170	19 25.5	- 6 43	1	7.3		
52		μ	38	+ 7 4132	19 29.2	+ 7 10	4.6	4.5	5.3	4°.5 Kr. 1580.
53		'	37	-10 5122	19 29.6	-10 47		5.2	5.8	5°7 Kr. 1581.
54			,	- 7 4998	19 30.1	- 7 41		6.4	6.7	
55		×	39	- 7 5006	19 31.5	- 7 15		4.9	5.4	
56		L	41	— I 3782	19 31.6	- 1 31		4.3	4.6	
57				+14 3974	19 31.7	+14 10	6.7	6.4		
58			42	- 4 4861	19 32.5	- 4 52		5.4	5.8	
59		σ	44	+ 5 4225	19 34.3	+ 5 10	5.3	5.0	5.8	
60				- 5 5036	19 35.0	- 5 41		6.9	6.9	
61				+13 4098	19 36.5	+13 35	6.1	5.7	6.1	-5.'5
62		ψ	48	+12 4059	19 39.9	+13 4	6.5	6.1	6.2	BD. $+12^{\circ} 4060$: 0° 0, $\begin{cases} -5.5 \\ 7.4 \end{cases}$
63		γ	50	+10 4043	19 41.5	+10 22	3.1	2.8		5.8 Kr. 1612.
64			١.,	-11 5131	19 43.5	-11 7		6.2	6.4	– Kr. 1618.
65			51	-11 5149	19 45.3	-11 1	1	5.6	5.8	
66		α	53 55	+ 8 4236	19 45.9 19 47.4	+ 8 36 + 0 45	1.1	0.7 ariabil:	1.1	3 ^M 5-4 ^M 7·
67 68		η	56	+ 0 4337	19 48.7	9 50	\ \ \	ariabii 6.1	6.2	3.5-4.7.
00			50			$-8 \begin{cases} 29 \\ 30 \end{cases}$			6.4	
69			57	$-8 \begin{cases} 5^{154} \\ 5^{155} \end{cases}$	19 49.2	$-8{30 \atop 30}$		5.2	7.1	
70		β	60	+ 6 4357	19 50.4	+ 6 9	3.9	3.8	3.9	
71				-10 5238	19 54.4	-10 13	0.0	5.9	6.1	
72		9	65	- 1 3911	20 6.1	- 1 7		3.2	3.0	
73	Sagitta	8	4	+16 3918	19 32.8	+16 14	5.7	5.7		
74		α	5	+17 4042	19 35.6	+17 47	4.5	4.3	i.	
75		β	6	+17 4048	19 36.6	+17 15	4.6	4.4		– Kr. (111).
76		δ	7	+18 4240	19 42.9	+18 17	3.9	3.9		6.5 Kr. 1614.
77		ζ	8	+18 4254	19 44.5	+18 53	5.2	4.9		
78			9	+18 4276	19 47.9	+18 25	6.5	6.3		
. 79		S	10	+16 4067	19 51.5	+16 22		ariabil	is	$5^{\text{M}}6-6^{\text{M}}4.$
80			11	+16 4081	19 53.2	+16 31	5.7	5.5		•
81	1			+16 4086	19 53.7	+16 13	7.1	6.8		
82		2	12	+19 4229	19 54.3	+19 13	3.8	3.8		7.ºo Kr. 1640.
83			13	+17 4183	19 55.5	+17 15	5.5	5.6		6°7 Kr. 1644.
84			14	+15 4033	19 58.9	+15 45	5.7	5.6	6.0	
85			15	+16 4121	19 59.6	+16 48	5.7	5.8		AGC. Berlin A: 6 ^M .7.
86	Į į	η	16	+19 4277	20 0.7	+19 42	5.0	5.2		1.

d Serpentis	Hn Sr Y	7 12 13 14 25 7 12 7 12 13 . 25
R Scuti .	H Hd Hn O P S Sr Wg Y	22 24 30 31 33 18 19 21 22 24 . 31 . 18 19 . 22 24 . 31 19 21 22 24 . 31 33 . 19 21 31 21 22 24 . 31 33 18 19 21 22 24 30 31 33 et 17 21 22 24 19 21 22 31 33
U Aquilae	Hn Sr Y	. 45 51 54 . 58 40 45 51 54 64 68 71 40 45 51 . 55 . 64 68 71
η Aquilae	A H O P S Sb Sr St W Y Z	29 47 48 52 56 . 70 . 29 47 . 52 56 . 70 47 48 52 56 63 70 72 . 47 48 52 56 . 70 72 29 47 48 52 56 . 70 47 56 . 70 56 . 70
S Sagittae	C G Hn Sr Y	78 80 81 83 84 78 80 81 83 84 85

Charta XV.

7120 χ Cygni; Max.: 2365136 4 5 (3. Iun. 1763) + 406 4 02 E. Inaequ. period.

7437 X Cygni; Max.: $2410190^{\circ}90$ (10. Oct. 1886) + $16^{\circ}3855$ E.

7483 T Vulpeculae; Max.: 2409 848 95 (2. Nov. 1885) + 4.4360 E.

7754 W Cygni; Max.: 2409506^{4} (25. Nov. 1884) $+ 131^{4}5$ E.

Num.	Constellatio	Bay.	Fl.	BD.	19 α	οο δ	PD.	HP.	UA.	Notae
r	Cygnus	ж	1	+53 2216	19 ^h 14 ^m .8	+530 11'	4.0	4.0		
2	~ J S		2	+29 3584	19 20.2	+29 26	5.1	4.8		
3			4	+36 3557	19 22.6	+36 7	5.4	5.3		
4		β	6	+27 3410 3411	19 26.7	+27 45	∫ 3.2 5.7	3.2		7 ^e .2 Kr. 1573.
5		L	10	+51 2605	19 27.2	+51 31	4.0	4.0		
6			8	+34 3590	19 28.1	+34 14	4.9	4.9		
7			9	+29 3651	19 30.9	+29 15	5.5	5.3		
8				+28 3412	19 33.2	+28 17	6.9	6.7		
9		9	13	+49 3062	19 33.8	+49 59	4.6	4.5		
10		φ	12	+29 3684	19 35.4	+29 55	4.8	4.8		magn. fund.
11				+33 3547	19 36.0	+33 45	6.3	6.2		
12		1	ic D	+28 3447	19 38.8	+29 6	6.8	6.4		
13				+32 3531	19 38.9	+32 11	6.2	5.9		
14		С	16	$+50$ $\begin{cases} 2847 \\ 2848 \end{cases}$	19 39.2	$+50$ $\begin{cases} 18 \\ 17 \end{cases}$	6.3 6.3	6.0		
15				+30 3706	19 39.2	+30 26	6.3	6.0		
16				+33 3572	19 40.1	+33 55	6.4	5.9		
17			15	+37 3586	19 40.7	+37 7	4.5	5.0		
18		SU		+28 3460	19 40.8	+29 1	V	ariabili	İs	6 ^M 6-7 ^M 4.*
19		δ	18	+44 3234	19 41.8	+44 53	3.2	2.9	1	
20			17	+33 3587	19 42.6	+33 30	5.1	5.1		
2 I				+32 3558	19 42.8	+32 39	6.3	6.2		
22			1	+33 3602	19 45.0	+33 11	6.8	6.2		
23		x		+32 3593	19 46.7	+32 40	V	ariabili	is	4 ^M o-13 ^M 5; 7°8 Kr. 1624.**
24		d	20	+52 2547	19 48.1	+52 44	5.1	5.2	!	
25		1	22	+38 3817	19 52.3	+38 13	5.1	5.0		
26		η	21	+34 3798	19 52.6	+34 49	4.2	4.0	l n	
27		ψ	24	+52 2572	19 53.0	+52 10	5.1	4.8		
28		1	25	+36 3806	19 56.3	+36 46	5.4	5.1		
29		е	26	+49 3158	19 58.5	+49 50	5.1	5.4		
30		b1	27	+35 3959	20 2.7	+35 42	5.6	5.5		3°.9 Kr. 1671.
31		b ²	28	+36 3907	20 5.7	+36 33	5.2	4.8		

^{*} Vide AN. n. 3483. Periodus 3.84 . . .

^{**} Vide etiam Seriem III.

Num.	Constellatio	Bay.	Fl.	BD.	α	oo ð	PD.	HP.	UA.	Notae
			[
32	Cygnus	o1{	30	+46 ⁰ 2881	20 ^h 10 ^m 2	$+46^{\circ}31'$	5.0	5.0		.0 1500
33		(31	+46 2882	20 10.5	+46 26	4.1	4.0		6°3 Kr. 1702.
34		p ₈	29	+36 3955	20 10.8	+36 30	5.3	5.1		64 77 1500
35		02	32	+47 3059	20 12.4	+47 24	4.3	4.3		5.6 Kr. 1708.
36		P	34	+37 3871	20 14.1	+37 43	5.0	4.9		Nova 1600.
37			36	+36 3998	20 14.7	+36 41	6.0	5.5		
38			35	+34 3967	20 14.8	+34 40	5.3	5.2 2.3		
39		γ	37	+39 4159	20 18.6	+39 56	2.5 4.6	4.7		
40			39 ,	+31 4062	20 19.9 20 20.0	$+31 52 \\ +37 9$	6.1	6.0		
41			40	+37 3916	20 20.0	+38 7	5.9	5.5		
42			41	+37 3941 +29 4057	20 25.3	+30 2	4.3	4.1		
43	i		42	+35 4141	20 25.5	+36 7	6.1	5.9		
44		ω^1	45	+35 4141	20 27.0	$+48 \ 37$	5.2	4.9		
45 46		w -	44	+36 4105	20 27.2	+36 36	6.4	6.3		
47		ω^2	46	+48 3154	20 28.2	+48 53	5.6	5.6		7°0 Kr. 1769.
48		ι ω	47	+34 4079	20 30.0	+34 55	4.8	4.9		6°9 Kr. 1771.
40				(ATEO		. (13	6.7	6.2		
49			48	+31 4160	20 33.5	$+31 \begin{cases} 13 \\ 10 \end{cases}$	6.7	6.4		
50				+29 4121	20 34.9	+29 59	5.8	5.9		
51				+34 4111	20 36.0	+35 2	7.1	6.8		
52				+29 4131	20 36.5	+29 27	6.3	6.1		
53			Ì	+34 4114	20 36.9	+34 41	7.4	7.2		
54			49	+31 4181	20 37.0	+31 57	5.7	5.7		magn, fund.
55				+35 4219	20 37.8	+35 11	7.7	7.4		
56		α	50	+44 3541	20 38.0	+44 55	1.6	1.3		·
57				+34 4127	20 38.5	+35 6	7.0	6.4		
58			51	+49 3353	20 39.1	+49 59	5.7	5.4		
		i	ł	(4231	$20_{100}^{39.2}$	$ +35 \begin{cases} 24 \\ 23 \end{cases}$				BD. 8 ^M 7 et 8 ^M 5.
59				+35 4233	²⁰ (39.4		Ī			
60		X		+35 4234	20 39.5	+35 14	v	ariabili	s	$6^{\text{M}}_{\cdot}4-7^{\text{M}}_{\cdot}7.*$
61		1	52	+30 4167	20 41.5	+30 21	4.5	4.4		
62		ε	53	+33 4018	$20 \ 42.2$	+33 36	2.7	2.6		5°.4 Kr. 1800.
63				+33 4028	20 43.2	+34 0	5.2	5.1	•	Olim T Cygni. 4.2 Kr. 1804
64		λ	54	+35 4267	20 43.5	+36 7	4.8	4.4		
65				+35 4282	20 45.3	+35 12	6.7	6.7	ł	
66			57	+43 3755	20 49.7	+44 0	5.0	4.8		
67	"	V	58	+40 4364	20 53.4	+40 47	4.2	4.0		
68		f ¹	59	+46 3133	20 56.4	+47 8	4.5	5.0		LOG D (Mo
69		٠,	60	+45 3364	20 57.7	+45 46	5.6	5.3	ļ	AGC. Bonn: 6.9.
70		ξ	62	+43 3800	21 1.3	+43 32	3.9	3.9		7°0 Kr. 1855.
7 I			61	$+38$ $\begin{cases} 4343 \\ 4344 \end{cases}$	21 2.4	+38 15	$\begin{cases} 5.4 \\ 6.1 \end{cases}$	5.1		5 ^o Kr. 1859.
72	[f ²	63	+47 3292	21 3.2	+47 15	4.6	4.8		– Kr. 1862.
73		ζ	64	+29 4348	21 8.7	+29 49	3.5	3.5		
74	1	τ	65	+37 4240	21 10.8	+37 37	4.0	3.8		
75		σ	67	+38 4431	21 13.5	+38 59	4.5	4.2		III Fl. 66 Uran. Nov.
76		υ	66	+34 4371	21 13.8	+34 29	4.6	4.4		≡ Fl. 67 ,, ,,
77		A	68	+43 3877	21 14.7	+43 31	5.1	5.1		
78		1.		+46 3305	21 21.6	+46 17	1	5.6		
79			69	+36 4557	21 21.7	+36 14	6.2	5.9		No.
80			70	+36 4568	21 23.3	+36 41	5.5	5.3		

^{*} BD. $+85^{\circ}4237$: $+0^{\circ}2$, +0.2; $9^{\circ}0$.

Num.	Constellatio	Bay.	Fl.	BD.	α 19	00 δ	PD.	HP.	UA.	Notae
				0 -	orh orm o	. 100 01		- 1		
81	Cygnus	g	71	+45° 3558	21 ^h 25 ^m 8	$+46^{\circ}$ 6'	5.4	5.4		
82				+45 3584	21 29.6	+45 25	6.2	6.6		4° o Kr. 1923.
83		Q	73	+44 3865	21 30.2	+45 9	4.3	4.1		
84			72	+37 4359	21 30.7	+38 5	5.0	5.0		
85				+43 3975	21 31.3	+43 15	7.0	6.7		
86		W		+44 3877	21 32.2	+44 56	V	ariabili	s	5 ^M o-6 ^M 7; 6°5 Kr. 1926.
87			74	+39 4612	21 32.9	+39 58	5.3	5.1		
88				+44 3889	21 33.6	+44 15	6.4	6.1		
89				+43 4002	21 36.0	+43 59	6.9	6.7		
90			75	+42 4177	21 36.3	+42 49	5.2	5.4		6°1 Kr. 1928.
91				+45 3637	21 38.3	+45 19	6.2	6.6		6°5 Kr. 1935.
92		π^1	80	+50 3410	21 38.5	+50 44	4.9	4.7		
93				+40 4623	21 39.1	+40 42	5.5	5.6		
94				+46 3422	21 40.7	+46 24	6.7	6.6		
95		π^2	81	+48 3504	21 43.1	+48 51	4.5	4.1		
ł				_	40 55 0	08.00		,_		
96	Vulpecula		15	+27 3587	19 57.0	+27 29	4.9	4.7		6 4-0-
97			23	+27 3666	20 11.6	+27 30	4.6	4.7		5 ^c 8 Kr. 1705.
98			27	1-25 4302	20 32.8	+26 7	5.9	5.4		W W
99		T		+27 3890	20 47.2	+27 53	1	ariabili	is	$5^{\text{M}}5-6^{\text{M}}5.$
:00			31	+26 4017	20 47.9	$+26\ 43$	4.8	4.7		
01				+27 3909	20 50.1	+28 9	6.9	6.4		
102			32	+27 3911	20 50.3	$+27 \ 41$	5.1	5.3	0 13	

χ Cygni	A G H O S Sr St W Wg	. 7 10 13 14 15 . 20 21 22 26 et 5 6 13 20 21 22 26 et 28 30 . 7 10 13 . 15 . 20 21 22 26 13 16 20 21 22 26 Praeterea: ξ Herc.; γ, η, θ Lyrae . 7 10 13 15 16 20 21 7 10 13 16 20 21 22 26 6 . 10 13 20 21 22 26 10 . 14 20 26 10 13 20 21 22 . et 11	
X Cygni	Hn Sr Y	44 · 5 ¹ · 55 57 · 44 46 5 ¹ · · 57 65 44 · 5 ¹ 53 · 57 ·	
T Vulpeculae	G Sr Y	• 54 • 100 101 102 50 54 98 • 101 102 50 • • 101 •	
W Cygni	G Sr Y	82 83 85 88 . 90 91 78 81 82 88 89 78 81 82 . 85 88 . 90 91	

Charta XVI.

7803 μ Cephei; Periodus irregularis.

8073 δ Cephei; Max.: 2393375.45 (26.45. Sept. 1840) + 5.366428 E.

Num.	Constellatio	Bay.	Fl.	BD.	α 19	οο δ	PD.	HP.	UA.	Notae
ı	Cassiopeia	β	11	+580 3	0 ^h 3 ^m 8	+58° 36′	2.6	2.4		
2	Outoropeia	×	15	$ +58^{\circ} $ 3 $ +62 $ 102	0 27.3	+62 23	4.4	4.3		
3		ζ	17	+53 105	0 31.4	+53 21	4.1	3.8		
4		α	18	+55 139	0 34.8	+55 59		ariabil	is	2 ^M .2-2 ^M .8; 4.8 Kr. 52.
5		η	24	+57 150	0 43.0	+57 17	3.8	3.6		2.2-2.0, 4.0 Ki. 02.
6		ν	27	+59 144	0 50.7	+60 11	2.5	2.2	- 43	
7		δ	37	+59 248	1 19.3	+59 43	3.0	2.8	-(
8		ε	45	+62 320	1 47.2	+63 11	3.6	3.4		
9		\ \	:	+66 213	2 20.8	+66 57	4.7	4.6		
10	Draco	δ	57	+67 1129	19 12.5	+67 29	3.2	3.3		
11		8	63	+69 1070	19 48.5	+70 1	3.9	4.0		
12	Cygnus		33	+56 2376	20 11.1	+56 16	4.7	4.2		
13		α	50	+44 3541	20 38.0	+44 55	1.6	1.3		
14		ν	58	+40 4364	20 53.4	+40 47	4.2	4.0		
15		\$	62	+43 3800	21 1.3	+43 32	3.9	3.9		7°0 Kr. 1855.
16		σ	67	+38 4431	21 13.5	+38 59	4.5	4.2		
17		Q	73	+44 3865	21 30.2	+45 9	4.3	4.1		
18		$ \pi^1 $	80	+50 3410	21 38.5	$+50 ext{ } 44$	4.9	4.7		
19		$ \pi^2 $	81	+48 3504	21 43.1	+48 51	4.5	4.1		
20	Cepheus	×	1	+77 764	20 12.3	+77 25	4.5	4.4		
2 I		9	2	+62 1821	20 27.9	+62 39	4.4	4.2		
22		η	3	+61 2050	20 43.3	+61 27	3.5	3.6		4°.2 Kr. 1805.
23		T		+67 1291	21 8.2	+68 5	٧	ariabili	is	Ser. IV. 5.2 $\{8.6$ $\{0.7, -\text{Kr.}1872\}$
24		α	5	+61 2111	21 16.2	+62 10	2.7	2.6		
25		β	8	+69 1173	21 27.4	+70 7	3.4	3.3		
26				+59 2395	21 28.2	+60 1	5.7	5.7		
27		.	9	+61 2169	21 35.2	+61 38	5.0	4.8		
28				+56 2617	21 35.9	+57 2	6.0	5.7		
29		μ		+58 2316	21 40.5	+58 19	v	ariabili	is	4^{M} ? -5^{M} ? 8°.4 Kr. 1940.
30		ν	10	+60 2288	21 42.6	+60 40	4.5	4.4		
31				$+55$ ${2638 \atop 2639}$	21 48.6	$+55$ ${19 \atop 20}$	6.2	5.6		BD. $7^{M}.5$ et $6^{M}.0$.
32			13	+55 2644	21 51.5	+56 8	6.0	6.1		
33			14	+57 2441	21 58.7	+57 31	5.8	5.5		Uranom. Nova: μ.
34			15	+59 2456	22 0.6	+59 20	6.9	6.7		144 Y

Num.	Constellatio	Bay.	Fl.	BD.	α 19	δ	PD.	HP.	UA.	Notae
	<i>a</i> .	,,	10	0 0	ooh omo	. 040 01	45	4.4		
35	Cepheus	5	17	+63 ⁰ 1802	22 ^h 0 ^m .9	+64° 8′	4.5	4.4		0 1000
36		ζ	21	+57 2475	22 7.4	+57 42	3.7	3.7		4.°9 Kr. 1980.
37		λ .	22	+58 2402	22 8.1	+58 55	5.3	5.0		
38		ε	23	+56 2741	22 11.3	+56 33	4.4	4.2		
39		δ	27	+57 2548	22 25.5	+57 54	Ų v	ariabil	is	$3^{\text{M}}_{.7}$ - $4^{\text{M}}_{.9}$; - Kr. 2006.*
40		ı	32	+65 1814	22 46.1	$+65 \ 40$	3.6	3.7		
41		γ	35	+76 928	23 35.2	+77 4	3.4	3.5		
42	Lacerta			+50 3602	22 7.3	+50 20	5.6	5.3		į.
43			2	+45 3894	22 16.9	+46 2	4.7	4.5		
44			. 3	+51 3358	22 19.6	+51 44	4.6	4.6		4°.6 Kr. 1998.
45			4	+48 3715	22 20.5	+48 58	4.8	4.6		
46	•		5	+46 3719	22 25.4	+47 12	4.5	4.7		7°.0 Kr. 2005.
47			7	+49 3875	22 27.2	+49 46	4.0	3.8		•
48			9	+50 3770	22 33.3	+51 51	4.9	4.9		·
49				+47 3985	22 52.7	+48 9	5.3	5.2		
50	Andromeda	0	1	+41 4664	22 57.3	+41 47	4.0	3.5		
51			3	+49 4028	22 59.7	+49 30	4.8	5.1		1
52	, ,		7	+48 3964	23 8.0	+48 52	4.7	4.5		1
53			8	+48 3991	23 13.1	+48 28	5.0	5.0		7.°0 Kr. 2087.
54		λ	16	+45 4283	23 32.7	+45 55	4.0	4.1		4.ºo Kr. 2115.
			17	+42 4720	23 33.2	+42 43	4.5	4.2		7.7
55		l L	1	1	23 35.5	E .	4.5	4.3		1
56		×	19	+43 4522	1 45 50.5	+43 47	1 4.0	4.0	1	1

^{*)} BD. $+57^{\circ}2547:0^{\circ}0, -1.5;7^{\circ}5.$

μ Cephei .	A				30	33				38	39	40	47								
	Ве		27		30	•	35			38		•	•								
	G		27	28		33	•	36	37	38				et	34						
	H	•			•	•	35		•	38	39	40	47								
	P	2 1	27	28	30	-		36		38	•		47	et	18	19	26				
1	Sk	2 I	27		30		35	36	•	38		40						Y.	Draconis		
	w		-,	•		•	33		•	38	39	40	•				• •	20			
	H P Sk W Y	2 I	•	•	30	•	35	36		38	39	-	-								
	7.	~ ~	•	•	50	•	35	26	37	28	· ·	40	Ī								
	2	•	•	•	•	•	•	30	•	50	•	70	•								
														_							
δ Cephei .	A		35	36		38	40		47	et	29										
•		30		36		38			47												
	G			36 36		38			•												
	H		35	36		38	40		47												
	L		•	36 36	•.		40		•											•	
	0		35			38	40		47												
	P	30				38		41			24	25	27								
	S		35		•	38					•	Ū	•								
	Sb		35			38		•	47												
	Sr		•	36		38	•		•												
	St			36		38															
	w		35	36		38	40														
	Be G H L O P S S S S S S S S S S S V Y Z Z	30	35 35	36	37	38	40		47	et	20										
	v		35	36	37	38			47												
	7.		35	26	31	38 38	40	•	71										•		
	1 2	•	35	30	•	50	40	•	•												

Charta XVII.

8273 β Pegasi; Variatio irregularis.

Num.	Constellatio	Bay.	Fl.	BD.	α α	00 δ	PD.	HP.	UA.	Notae
1	Pegasus	8	8	+ 90 4891	21 ^h 39 ^m 3	+ 9° 25′	2.8	2,7	2.3	
2			9	+16 4582	21 39.8	+16 53	4.4	4.3	4.8	
3		ж	10	+24 4463	21 40.1	+25 11	4.3	4.2	2.0	
4		L	24	+24 4533	22 2.4	+24 51	4.1	3.8		
	•	9	26	+ 5 4961	22 5.2	+ 5 42	4.1	3.6	3.6	
5 6		π	29	+32 4352	22 5.5	+32 41	4.5	4.3		2 /
7		ζ	42	+10 4797	22 36.5	+10 19	3.7	3.3	3.5	
8		η	44	+29 4741	22 38.3	+29 42	3.2	3.2		
9		\$	46	+11 4875	$22 \ 41.7$	+11 40	4.4	4.3	4.3	
10		λ	47	+22 4709	$22 \ 41.7$	+23 2	4.2	4.1		
11	•	μ	48	+23 4615	$22 \ 45.2$	+24 4	3.9	3.6		
12		β	53	+27 4480	22 58.9	+27 32	V	ariabili	s	2 ^M 2-2 ^M 7; 6°7 Kr. 2066.
13		α	54	+14 4926	22 59.8	+14 40	3.2	2.6	1	., .
14		2	88	+14 14	0 8.1	+14 38	3.3	2.8		
15	Cygnus	μ	78	+28 4169	21 39.7	+28 18	4.7	4.5		
16	Pisces	9	10	+ 5 5173	23 22.9	+ 5 50	4.5	4.5	4.2	
17		L	17	+ 4 5035	23 34.8	+ 5 5	4.3	4.2	4.1	
18		ω	28	+ 6 5227	23 54.2	+ 6 19	4.3	4.0	4.0	
19	Andromeda	α	21	+28 4	0 3.2	+28 32	2.4	2.1		\equiv δ Pegasi, Bay.

β Pegasi	A	ľ	8 r	13	14	19				
	Be H		8.		14		α	et	β	Aquarii
	H	r			•				•	_
	0		8.	13		19				
	P			13	14	19				
VIII.	Sr		8.	13		19				
	St		8.			í				
	St		δ.	•	•	•				

Charta XVIII.

2583 L² Puppis; Max.: 2404 876^d(23. Mart. 1872) + 140^d2 E.
2852 V Puppis; Typús Algol, Periodus: 1^d 10^h 54^m 26^s.7.

Num.	Constellatio	Bay.	UA.	SMP.	α 19	00 J	LM.	HP.	UA.	Notae
1	Pictor	α	66	1650	6 ^h 47 ^m 2	-61° 50′		3 ^M 3	3 ^M 5	
2	Carina	α	7	1480	6 21.7	-52 38		-1.0	0.4	
	Carma	N	11	1553	32.8	-52 54		4.5	4.8	
3		A	18	1654	47.7	-53 30		4.4	4.8	
4		1	23	1720	58.4	-51 16		5.0	5.8	r (UA.)
5 6		t	44	1926	7 23.8	-50 49		5.0	5.7	- ()
1		Q	50	1996	33.2	-52 19		4.9	5.5	r (UA.)
7 8		Z	65	2178	54.2	-52 43	}	3.6	3.7	- ()
0		B	82	2313	8 7.4	-61 0	1	4.8	5.3	r(UA.)
10		ε	89	2441	20.5	-59 11		1.7	2.1	r (UA.)
Ιι		e ¹	95	2544	32.9	-57 53	1	5.4	5.9	- (,
12		e ²	96	2543	33.0	-57 40		4.8	5.4	r(UA.)
13		d	99	2590	38.4	-59 24	1	4.4	4.7	- (,
14		f	103	2639	44.1	-56 24	1	4.6	5.1	
15		c	108	2706	52.8	-60 16	4.1	4.0	4.0	
16		b ¹	109	2717	54.6	-58 51		5.1	5.4	$(UA.) \left\{ \begin{array}{l} 5^{1/2} \\ 7^{1/4} \end{array} \right.$
		b ²	110	2737	57.0	-58 42		5.2	5.7	r (UA.)
17 18		a	117	2808	9 8.3	-58 33	3.9	3.5	3.8	. (011.)
10		ı	127	2868	14.4	-58 51	0.0	2.2	2.5	
19		ì	12.	2000	1	00 01	1	2.2	1.0	
20	Puppis)	16	$\begin{cases} 1520 \\ 1521 \end{cases}$	6 27.4	-50 10		5.3	${8.5} \\ 5.5$	
2 I		l v	20	1569	34.7	-43 6		3.2	3.5	c(UA.)*
22			21	1583	36.0	-48 8		5.0	5.3	$c (UA.) \begin{cases} 7^{3/4} \\ 5^{3/4} \end{cases}$
23			38	1648	47.1	-46 31		5.1	5.4	1
24		T	39	1653	47.5	-50 30	3.2	2.8	3.2	r (UA.)
25	Ì		47	1685	53.6	-48 35		4.9	5.5	r (UA.)
- 5 2 6			50		55.1	-45 58			6.9	1 ' '
27			51		55.8	-45 38		1	6.6	
28			52		56.2	-46 53			6.9	
29			57		59.2	-43 15			6.8	
30		C	59	1738	7 0.9	-42 11	5.6	5.2	5.5	
31	·		60	1739	0 9	-43 28	5.7	5.5	5.8	$(UA.) \begin{cases} 5 \cdot 9 \\ 7 \cdot 4 \end{cases}$
		**	61		1.3	-49 26	5.4	5.2	5.3	1
32		Н	61 65	1742	3.3	$-43 \ 27$	J 0.#	0.4	6.8	
33	I	I	1 00		1 5.5	-40 41	1	I .	1 0.0	

^{*} Decidedly blue (UA.)

Num.	Constellatio	Bay.	UA.	SMP.	α 19	δ	LM.	HP.	UA.	Notae
24	Puppis	j.	66	1765	7 ^h 3 ^m .8	-40° 44′		6 [™] 0	6 [™] 2	
34	r appro	A	67	1775	5.5	-39 30		4.9	5.3	
35 36		, A	68	1775	8.1	-48 46	5.7	5.1	5.6	r (UA.)
		E	70	1799	9.0	-40 20	J	5.5	5.7	- ()
37 38		I	71	1805	9.7	-46 36	4.8	4.5	4.8	
39		L^1	72	1813	10.2	-45 0	5.2	5.1	5.3	var. ? (UA.)
40		L^2	73	1815	10.5	-44 29	1	ariabil		$3^{1/2}$ $-6^{1/2}$ M
41		-	76	1013	11.7	-41 15	·		6.3	0 / 2
42			77	1825	11.9	-46 40	6.1	5.8	6.2	
43		1	78	1826	11.9	-48 6	5.1	4.9	5.0	
44			81	1842	13.4	-46 36	6.1	5.6	6.1	r (UA.)
45		π	82	1845	13.6	-36 55	(2.6)	2.5	2.7	var. $\frac{1}{2}$ r (UA.)
46		v ¹	83	1856	14.8	-36 33		4.8	5.3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
47			85	1859	15.0	-43 48		6.0	6.3	
48		v ²	84	1860	15.1	-36 34	1	5.3	5.4	II. A
49	•	F	87	1861	15.1	-39 2	1	5.3	5.8	r (UA.)
50		У	98	1946	25.6	-38 36	1	5.6	5.9	
51		σ	99	1951	26.1	-43 6	3.7	3.0	3.5	r (UA.)
52		1	130	2002	33.9	-48 36	l	5.9	6.1	``
53			142	2017	35.5	-48 22	1	5.6	6.0	
54		d^1	143	2021	35.9	-38 5		5.1	5.4	triplex *.
55			159	2054	39.9	-44 55		5.1	5.6	r (UA.)
56			162	2059	40.3	-40 41		5.1	5.7	r (UA.)
57		С	175	2075	41.7	-37 44		3.4	3.6	in cumulo (UA.) **.
58			187	2094	44.5	-46 22		5.3	5.9	
59		Q	196	2102	45.4	-46 49	5.3	4.7	5.1	r (UA.)
60		P	199	2108	46.2	-46 7	4.4	4.1	4.3	
6I .			208	2120	47.7	-50 15	ı	5.8	6.4	
62		a	213	2129	48.8	-40 19	4.1	3.7	4.0	r (UA.)
63		b	214	2134	49.1	-38 36		4.7	4.9	
64			216	2142	50.2	-49 21	5.0	4.8	5.0	
65		J	218	2143	50.4	-47 51	4.6	4.3	4.5	
66		,	227	2172	53.7 53.9	-43 14 \\ -43 13		5.6	5.9	$(UA.)$ $\begin{cases} 6 \\ 7^{1/2} \end{cases}$
67		N	228	2176	54.1	-43 50		5.2	5.7	r (UA.)
68		0	231	2184	54.7	-45 18		5.1	5.6	r (UA.)
69		v	233	2190	55.4	-48 58	l v	ariabil	•	4 ^M -5 ^M
70			{ 236 237	2206	56.4	-49 42	5.9	6.0	6.2	$(UA.)$ $\begin{cases} 6^{3/4} \end{cases}$
7 I		ζ	248	2248	8 0.1	-39 43	(2.4)	2.3	2.5	1 7
72		h ¹	267	2318	7.8	-39 19	(2.4)	4.3	4.8	r (UA.)
73		1	268	2321	8.1	-42 41	i	4.8	5.3	1 ' '
73 74		h ²	279	2350	10.5	$-40 \ 3$		4.3	4.8	var.? (UA.)
	T/ole				1					(77.1)
75 76	Vela		1	2259	8 1.9	-50 18		6.0	6.6	r (UA.)
76			3	2277	3.5	-44 59		4.8	5.7	c (UA.)
77			6	2298	6.2	-48 23 42 50		5.9	6.2	r (UA.)
78 *			7	2300	6.3	-43 50		5.2	5.9	
79 80		.	8	2303	6.4	-47 4		4.9	$6^{1}/_{4}$, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
80 8 -	1.	γ	9	2305	6.4	-47 3		1.9	3	cumulus (UA.)
81			10	2309	6.7	-47 39		5.4	5.9	
82			15	2351	10.5	-46 41		5.3	5.8	4
83	1	1	16	2353	10.7	-49 54	L	5.4	6.0	r (UA.)

^{*} d⁹& d³, 5^M, 9 & 6^M, 0 (HP.); 6^M, 6 & 6^M, 5 (UA.) ** (UA.) deep orange. NGC. 2451.

Num.	Constellatio	Bay.	UA.	SMP.	19 α	οο δ	LM.	HP.	UA.	Notae
					İ					
84	Vela	В	26	2433	8 ^h 19 [™] 5	-48° 10′		4.8	5 [™] 4	
85		F	30	2482	24.9	-52 45		5.1	5.7	
86		A	33	2490	25.9	-47 36		5.5	6.0	
87			34	2491	26.1	-44 23		5.2	5.5	(UA.) $\begin{cases} 7^{3}/_{4} \\ 6^{1}/_{4} \end{cases}$
88		C	46	2536	31.7	-49 36		4.9	5.6	r (UA.)
89		е	48	2554	34.1	-42 38		4.1	4.6	, ,
90		ь	53	2582	37.3	-46 18		3.7	4.1	
91		0	56	2583	37.4	-52 34		3.6	4.0	cumulus (UA.)
92		n	58	2584	37.9	-46 58	l	4.8	5.2	r (UA.)
93		{	61 62	2599 2600	39.5 39.6	-52 44 -52 45		5.7 5.0	6.6 6.3	} 5 ^M 7 (UA.)
94		D	63	2613	40.5	_49 28		5.2	5.8	,
95		d	64	2614	40.8	-42 17		4.0	4.4	
96		δ	65	2623	41.9	-54 20		2.0	2.2	
97		a	66	2629	42.6	-45 41		4.0	4.1	
98		g	76	2659	46.3	-44 56		4.9	5.7	
99		f	78	2670	47.2	-46 9		5.2	5.6	
100		н	88	2707	53.3	-52 20		4.7	5.4	

L ² Puppis	Markwick	•	•	•	•	36	38	39	•	43		47 •	•	5 I	•	59	60	•	64	65	69	
V Puppis	Goetz Roberts	-	-				-	. 8.														

Charta XIX.

3409 N Velorum; Periodus brevis.

3418 R Carinae; Max.: 2404653^{d} (13. Aug. 1871) + $309^{d}5$ E (Inaeq. period.).

3495 l Carinae; Max.: 2404637^4 .4 (28. Jul. 1871) + 35^4 .520 E.

 $_{3847}$ η Carinae; Nova.

Num.	Constellatio	Bay.	UA.	SMP.	α 19	οο <i>δ</i>	LM.	нр.	UA.	Notae
		1					i			
1	Volans	3	22	2314	8 ^h 76	-68° 19′		4.4	4.5	
2			24	2413	17.2	-65 18	Ú .	5.0	5.7	r (UA.)
3		β	29	2481	24.7	-65 48		3.6	3.9	c (UA.) *
4		α	46	2762	9 0.9	-66 0		4.1	4.2	
5	Carina	8	89	2441	8 20.5	-59 11		1.7	2.1	r (UA.)
6		e ¹	95	2544	32.9	-57 53		5.4	5.9	
7		e ²	96	2543	33.0	-57 40		4.8	5.4	r (UA.)
8		d	99	2590	38.4	-59 24		4.4	4.7	
9		f	103	2639	44.1	-56 24		4.6	5.1	
10		С	108	2706	52,8	-60 16	4.1	4.0	4.0	
11		ь1	109	2717	54.5	-58 51		5.1	5.4	$(UA.) \left\{ \begin{array}{l} 5^{1/2} \\ 7^{1/4} \end{array} \right.$
12		P ₃	110	2737	57.0	-58 42		5.2	5.7	r (UA.)
13		E	115	2787	9 4.8	-70 8		4.8	5.2	(, , , , , , , , , , , , , , , , , , ,
14		a	117	2808	8.3	-58 33	3.9	3.5	3.8	
15		i	119	2814	9.0	-61 54	4.4	4.2	4.3	
16			121	2823	10.3	-59 0		5.6	6.1	r (UA.)
17		β	123	2844	12.1	-69 18		1.7	2.0	,
18		g	125	2857	13.4	-57 6	5.3	4.2	4.8	var.? rr (UA.)
19		ı	127	2868	14.4	-58 51		2.2	2.5	` ′
20		k	132	2903	18.5	-61 59	5.6	4.8	5.5	r (UA.)
21			134	, ,	21.6	-61 13.	6.6		6.4	
22			135	;	23.0	-61 31	6.2		6.3	
23			137	;	24.6	-64 30			6.6	n Car, (Lac.)
24			139		26.3	-61 50	6.7		6.5	r (UA.)
25			140		27.0	-61 55	7.0		7.0	
26		R	145	(3004)	29.7	-62 21	V V	ariabil	is	4 ^M .5-10 ^M .0 **
27		h	147	3020	31.5	-58 47	4.7	4.2	4.9	
28		m	150	3053	36.6	-60 53	4.9	4.6	5.1	
29			151	2 00	37.1	-62 29	6.8		6.9	
30			152	3060	37.6	-57 32		5.4	6.0	
31		1	157	3084	42.5	-62 3		ariabil	1	3 ^M 6−5 ^M o

^{*} UA. bright yellow.

^{**} CGA. orange.

Num.	Constellatio	Bay.	UA.	SMP.	α	σοο δ	LM.	HP.	UA.	Notae
32	Carina	v	160	3095	9 ^h 44 ^m 6	-64° 36′	3 [™] 1	3 ^M 0	$3^{ exttt{M}}4$	(UA.) $\begin{cases} 3^{1/2} \\ 7^{1/2} \end{cases}$
	-				48.1	-62 17	6.4	5.6	6.2	(7*/2
33			162	3124	10 5.9	-65 20	6.0	5.4	5.7	r (UA.)
34			176 177	3232	6.2	-61 4		ariabil		5 ^M 8-9 ^M 0
35		S M	184	3266	10.7	-65 53	5.7	5.4	5.7	3.0 9.0
36			185		11.4	-69 32	0	3.6	3.6	
37 38		ω	187	3274 3293	13.7	-60 50		3.4	3.3	var.? r (UA.)
		q L	191	3293 3344	20.0	-66 24	5.5	5.4	5.4	(423)
39 40			195	3369	23.7	-57 8	"	4.9	5.4	
41 41		s	196	3374	24.2	-58 14		4.0	4.6	r (UA.)
42		p	203	337 4 3406	28.5	-61 10	3.6	3.6	3.6	
43		r	208	3428	31.7	-57 2		4.6	5.3	r (UA.)
44		-	209	3429	32.0	-57 42	1		5.7	Cum. NGC. 3324.
45		t1	210	3432	32.6	-59 3		5.3	5.5	var. r (UA.)
46		t ²	213	3452	34.9	-58 40		4.7	5.2	(UA.) $\begin{cases} 5^{1/2} * \\ 7^{1/2} \end{cases}$
47	,		221	3472	38.7	-63 57	1	5.2	5.7	, , , , ,
48			222	3474	38.8	-58 42	1	5.5	6.5	var.? r (UA.)
49		θ	223	3476	39.4	-63 52	1	3.0	2.9	(
50	•	w	224	3477	39.7	-60 3	1	4.4	5.2	r (UA.)
5 I		"	229	3482	40.5	-63 26	1	5.1	5.6	r (UA.)
52		n	231	3485	41.2	-59 10	,	ariabil	•	> 17. 5 ***
53		'	237	3498	42.9	-63 44	İ	5.4	6.2	
54			238	3502	43.2	-63 51		5.0	5.8	Cum.
55			244	3547	48.4	-56 43	İ	5.7	6.0	
56		u	246	3556	49.4	-58 19	1	3.8	4.1	r (UA.)
57	0.1	T	249	3570	51.3	-59 59	,	ariabil	lis	6.7 - 7.0, r (UA.)
58	0 11	ש	250		53.7	-59 12	7	ariabil	is	6 ^M 8-8 ^M o
59	1 63		256	3659	11 2.2	-58 8	ŧ	6.0	$ 6^{1}/2$	Cum. NGC. 3532
60		z	257	3662	2.4	-61 53		4.8	5.3	r (UA.)
6 r		×	260	3678	4.3	-58 26	İ	4.0	4.6	c (UA.)
62			261	3679	4.4	-61 24		5.5	6.0	
63		у	263	3716	8.3	-59 46		4.7	5.2	
64	Vela	δ	65	2623	8 41.9	54 20		2.0	2.2	
65			114	2834	9 11.3	-55 9	j	5.2	6.0	r (UA.)
66		K	122	2870	14.8	-50 38		5.3	5.8	c (UA.)
67			128	2907	18.8	-55 4	0 m	5.7	6.4	
68		×	129	2911	19.0	-54 35		2.6	2.7	
69		I	136	2938	23.0	-52 57		5.2	5.8	
70		N	144	2996	28.2	-56 36	7	rariabil		3 ^M 4-4 ^M 4?
7 ^I		L	146	3011	30.7	$-50 ext{ } 49$		5.2	5.5	
72		M	148	3030	33.3	-48 54	l	4.4	4.9	
73			150	3032	33.9	-53 13		5.5	6.0	
74		0	154	3069	40.3	-53 26		5.7	5.8	
75	_	φ	171	3155	53.4	-54 5		3.7	3.9	c (UA.)
76		Q	186	3224	10 5.2	-51 19	'	5.2	5.3	
77			201	3308	15.9	-54 32		4.5	5.4	r (UA.)
78		J	203	3317	17.2	-55 32		4.4	5.0	$(UA.) \begin{cases} 5 \\ 8^{1/2} \end{cases}$

^{*)} UA. orange red.

^{**)} Nova Carinae (etiam: η Argus). Cum. NGC. 3372.

Num.	Constellatio	Bay.	UA.	SMP.	α α	00 δ	LM.	HP.	UA.	Notae
79	Vela		209	3366	10 ^h 23 ^m 0	-540 22'		5 ^M .5	6 [™] 2	r (UA.)
80			215	3394	27.5	-53 13		5.1	5.6	(UA.) $\begin{cases} 5^{3}/4 \\ 8^{1}/2 \end{cases}$
81		p	222	3436	33.1	-47 42		4.0	4.1	(81/2
82		x	225	3454 (3455)	35.3 35.4	-47 42 -55 5		4.4 6.6	$\frac{5}{7^{1/2}}$	} 4.8 (UA.)
83		μ	229	3495	42.5	-48 53		2.8	$\frac{1}{2}$, $\frac{1}{2}$,
84		•	230	3499	42.9	-56 14		5.5	5.8	
85	Centaurus	π	24	3774	11 16.4	-53 57		4.4	4.3	
86			33	3802	22.1	-60 34		5.6	6.2	
87		01	37	3840	27.1	-58 53		4.9	5.2	
88		0.5	38	3841	27.2	-58 58		5.3	5.5	
89		A	42	3871	30.0	-53 43		4.8	5.2	
90		λ	46	3883	31.2	-62 28		3.3	3.4	
91		1	52	3893	32.4	-60 44		5.2	5.9	
92		ŀ	54	3905	33.5	-61 16		5.4	6.0	
93		ł	58	3927	36.2	-61 32		4.8	5.7	r (UA.)
94		ļ	61	3949	38.8	-61 56		5.2	5.8	
95		İ	65	3966	41.7	-60 37		4.3	4.7	
96		j	69	3987	44.8	-63 14		4.6	4.9	
97	Musca	λ	15	3963	11 40.9	- 66 10		3.8	3.8	
98		μ	16	3978	43.4	-66 16		4.7	5.3	rr (UA.) *
99		İ	17	3990	45.2	-69 40		4.9	5.6	r (UA.)
100			18	4001	47.0	-64 39		5.1	5.5	
101		8	35	4147	12 12.0	-67 24		4.2	4.7	var.? r (UA.)
102		<u>ζ</u> 2	38	4176	16.6	-66 58		5.3	5.8	
103		α	45	4270	31.3	-68 35	i	2.9	2.9	
104		β	51	4312	40.1	-67 34		3.3	3.4	
105	Crux	θ^1	6	4059	11 57.9	-62 45		4.5	4.7	
106		θ^2	7	4066	59.2	-62 37		4.9	5.3	
107		17	10	4083	12 1.7	-64 4		4.3	4.7	
108		δ	18	4134	9.8	-58 12		3.1	3.4	
109		ζ	19	4153	13.0	-63 27		4.2	4.6	
110		8	22	4173	16.0	-59 51		3.5	4.0	rr (UA.)
111		α {	26 27	4208 4209	21.0	-62 33		1.0	$1^{1/2}$ $1^{3/4}$	} x ^M 3 (UA.)
112		۱ ۵٬	34	4242	25.6	-56 33		1.6	2.0	***
113		B	46		41.9	-59 9		1.5	1.7	
3			30	4324	1 =1.0	-00		1.0	1.1	

^{*} UA. intense orange red.
** CGA. orange.

Charta Specialis.

3847 7 Carinae.

Jum.	Constellatio	Bay.	CC. *)	CGA.	ıα	Δδ	CGA.	HP.	UA.	Notae **)
45	Carina	t ₁		14504	-8 [™] 6	+ 7'		5 [™] 3	$5^{ ext{M}}_{\cdot}\mathbf{\tilde{o}}$	UA. 210, r var.
114		1		508	-8.4	+29	71/4		,,	L 4383
115				528	-7.5	+57	14		6.5	UA. 211
46		t ₂		558	-6.2	+30		4.7	5.2	UA. 213
116		1		561	-6.2	+25	$ 7^{1}/_{2} $			L 4397
117				566	-6.0	+52	6.8			L 4401
118			16	623	-3.8	-18			7.5	L 4420
119		}	19	626	-3.7	0			6.9	UA. 220 var.?
48			46	656	-2.4	+28		5.5	6.5	UA. 222, r var.?
50		w		673	-1.4	-53	1	4.4	5.2	UA. 224, r
120			79	684	-1.1	-26			7.0	UA. 226 cum.
121			80	686	-1.1	+ 8	7			L 4449
122			101	698	-0.6	-19			6.8	UA. 227 cum.
123			117	717	-0.3	+ 7			7.6	G 1332
52		η	122	720	∓0.0	0	V	ariabil		UA. 231
124		'	138	741	+0.6	+17	1		7.4	B 3202
125			139	744	+0.8	+12			7.5	B 3204, r
126			148	754	+1.3	-55	7			I. 4464
127			174	788	+2.6	-11			7.0	UA. 239 var.?
128		10.0	177	797	+3.0	-14			6.7	UA. 240
129			186	811	+3.5	-32	73/4			B 3236
130			197	827	+4.3	+22	14		6.7	UA. 243
131			214	850	+5.8	-16	7			B 3248
132				902	+8.1	+48	6.9			B 3272
56		u		14910	+8.2	+50	1	3.8	4.1	UA. 246, r

^{*)} Catalogus Cumulorum, CGA. pag. 625.
**) Desumptae ex CGA. et UA.

N Velorum	UA.	15 32 37
R Carinae	Goetz	. 10 . 15 . 20 25 27 28
	Innes	8 15 . 20 23 27
	Roberts	. 10 14 15 . 20 21 22 . 24 25 27 28 29 33 34 36 39
	UA.	18 36 39
l Carinae	Goetz Roberts UA.	10 14 15 . 20 . 28 38 . 10 14 15 18 . 27 28 32 42 10 18 37 . 42 et χ Carinae (65)
η Carinae	Innes	(MN. v. 59 p. 570)
	Markwick	
	Tebbutt	45 46 48 50 115 117 . 119 (MN. v. 28 p. 266)
	UA.	48 . 115 . 118 119 120 122 123 124 125 127 128 130 (UA. p. 256)

Charta XX.

Num.	Constellatio	Bay.	UA.	SMP.	α 19	δ	LM.	HP.	UA.	Notae
ı	Carina	I	193	2250	10 ^h 22 ^m 4	-73° 31′		4 ^M 0	4 ^M .4	3 /ITA > *
2	Julia	K	202	3359	27.8	-73 31 -71 29		4.9	5.0	var.? (UA.) *
3		~~	204	3399 3408	28.7	-72 42		4.9		- /TTA \
١			201	3400	20.1	-(2 42	1	4.0	5.6	c (UA.)
4	Chamaeleon	γ	23	3446	10 34.3	-78 5		4.1	4.4	
5		δ^1	25	3510	44.3	- 79 57		5.5	6.2	M. CTA
6		δ^2	26	3517	44.8	-80 1		4.6	4.9	} 4 ^M ·5 (UA.)
7		π	32	3900	11 33.1	-75 21		5.7	6.2	
8			33	3938	37.6	-82 33		6.2	6.7	
9		ε	37	4039	54.7	-77 40		5.1	4.9	(UA.) { 5.0 7.1
10		ж	38	4069	59.6	-75 58		4.9	5.6	r (UA.)
11		β	40	4148	12 12.5	-78 45	1	4.3	4.6	I (OA.)
12		1 .	48	4.40	13 24.6	77 3		1.0	6.6	
13			49	(4592)	30.6	-75 10	l	6.6	6.3	
.				(13)-/					0.0	
14	Musca	λ	15	3963	11 40.9	-66 10		3.8	3.8	
15		μι	16	3978	43.4	-66 15		4.7	5.3	rr (UA.)
16			17	3990	45.2	-69 40		4.9	5.6	r (UA.)
17			18	4001	47.0	-64 39		5.1	5.5	
18		S	30		12 7.4	-69 36	V	ariabil	is	$6^{\mathrm{M}}_{\cdot 4}$ – $7^{\mathrm{M}}_{\cdot 3}$
19		E	35	4147	12 12.2	-67 24		4.2	4.7	var.? r (UA.)
20		52	38	4176	16.6	-66 58		5.3	5.8	
2 1	•	γ	44	4247	26.5	-71 35		4.0	4.0	
22		α	45	4270	31.2	-68 35		2.9	2.9	
23		R	49	(4295)	36.0	-68 52	v	ariabil	is	6 ^M 5-7 ^M 6
24			50		38.9	-68 17			6.9	
25		β	51	4312	40.1	-67 34	l	3.3	3.4	
26		δ	54	4402	55.4	-71 1		3.6	3.7	$UA. 55, 6^{M}6, +55^{8}, +4'$
27		η	59	4470	13 8.5	-67 22		4.9	5.3	
28			62	4480	10.5	66 15	1	4.8	5.5	r (UA.)
29		ι1	66	4522	17.2	-74 22	1	4.9	5.6	r (UA.)
30		ι^2	68		19.4	-74 10			6.8	
31	Crux	θ^1	6	4059	11 57.9	-62 45		4.5	4.7	
32	T- W	θ^2	7	4066	59.2	$-62 \ 37$	1	4.9	5.3	
33		η	10	4083	12 1.7	-64 3		4.3	$\frac{3.3}{4.7}$	
34		δ	18	4134	9.8	-58 12		3.1	3.4	
35		5	19	4153	13.0	-63 27	1 b 1	4.2	4.6	
36			20	7-30	14.5	-62 18			7.0	
37		T	21		15.9	-61 44	١.,	ı 'ariabil		6 ^M 8-7 ^M 6

^{*} UA. 194, 6^M5, +19⁸+3'5.

Num.	Constellatio	Bay.	UA.	SMP.		α	δ	LM.	HP.	UA.	Notae
38	Crux	8	22	4173		12 ^h 16 ^m 0	-59° 51′		3 [™] .5	4 ^M 0	
39	(· V	R				18.1	-61 4	_ v	ariabil	is	$6^{\text{M}}_{\cdot}8-7^{\text{M}}_{\cdot}9$
	•	~	§ 26	4208	J	21.0	-62 33		1.0	1.3	$(UA.) \begin{cases} \frac{1}{1} \frac{1}{2} \\ \frac{1}{3} \frac{3}{4} \end{cases}$
40		α	l 27	4209	J						
41		γ	34	4242		25.6	-56 33		1.6	2.0	c (UA.) *
42			39	4297		36.2	-59 8		5.0	6.0	(
43		L	44	4310		39.7	-60 26		4.7	5.7	r (UA.)
44			45	4317		40.6	-55 56 -59 9	ŀ	4.9	5.4 1.7	
45	•	β S	46	4324		41.9 48.4	_59 9 _57 53		1.5 variabil		6 ^M 5-7 ^M 6
46 47		λ	51	4365		48.7	-51 55 -58 36	'	4.8	5.6	0.5-7.0
47		/	52	4367	1				(4.3	4.4)	.,
48		μ	53	4366	}	48.7	-56 38		5.4	5.5	4 ^M 1 (UA.)
49	Centaurus	j	69	3987		11 44.8	-63 14		4.6	4.9	
50	·		191	4467		13 8.1	-58 34		5.0	5.9	
51	4.17	J	[207	4514		16.2	-60 27		6.6	6.5	
	111		1208	4515		16.2	-60 28		4.6	5.2	M m
52		m	214	4521		17.3	-64 1	1 0	4.4	5.2	UA. 215, $6^{M}_{\cdot 4}$, $+1^{m}_{\cdot 3}$, $+3'$.
53		م	294 304	4724		50.4	-63 12 -59 53		4.8	5.7	
54 55		β R	331	4753 4826		56.8 14 9.4	-59 55 -59 27	١,	0.8 zariabil	1.2	5 ^M 6-11 ^M 8?
56		1	334	4843		12.5	-60 49	5.6	5.2	s 5.9	c (UA.)
57	•	v	336	4848		13.3	-55 56	5.0	4.4	5.0	C (OK.)
58	,		340	4858		15.5	-58 0	5.4	5.0	5.6	(IJA.) [6
59		v		4-3-	V	25.4	-56 27	1	 variabil		$(UA.) \begin{cases} 6 \\ 7^{3/4} \end{cases}$ $6^{\frac{1}{2}} 4 - 7^{\frac{1}{2}} 8$
60		α	{363 {364	4960 4961	}	32.8	-60 25		0.2	0.7	$(UA.) \begin{cases} \frac{1}{3^{1/2}} \end{cases}$
61			365	4901	J	33.3	-56 1			6.7	3-/2
62	Apus		3			13 50.2	_78 6			6.5	
63		θ	4	4749		55.6	-76 19	,	variabi		$5^{\text{M}}_{\cdot}5-6^{\text{M}}_{\cdot}6$
64			5			59.3	-74 23	l .	ļ	6.4	
65		η	6	4806		14 5.7	-80 32	1	5.0	5.3	
66			7		l l	6.4	-77 12	1		6.9	ľ.
67		3	9	4832		10.3	-79 39		5.3	5.5	l l
68 69			10			10.6	-73 30			6.7	<u> </u>
			11.			19.0	-76 1 7	1		6.5	
70 71		α	12 14	6		30.9	-76 35 78 37			6.7	ř.
71 72		"	15	4976		$\begin{array}{c} 35.4 \\ 40.0 \end{array}$	-78 37 -76 45		3.8	4.0	
73		'	17	5023		$\begin{array}{c} 40.0 \\ 43.2 \end{array}$	-70 45 -72 47		5.6	6.7	
74		R	18	5042		46.5	-76 1 5	,	yariabi	1	r (UA.) 5.5-6.2?
75			19	2-4-		48.4	-76 45		 	6.4	1 (OA.) 5.5-0.2:
76		1	20			49.1	-74 38			6.5	
77		x ¹	29	5263		15 20.6	-73 3		5.6	5.8	
78		×2	33	5313		29.3	$-73 \ \begin{cases} 7 \\ 8 \end{cases}$		5.8	5.9	$(UA.) \begin{cases} 6 \\ 7^{3}/4 \end{cases}$
79			34	. 1		29.6	-75 45			6.3	1/4
80			38	5481		54.8	-72 8	1	5.7	6.1	
81		δ	§ 40	5549		16 5.4	-78 27		4.7	5.2	r (UA.)) w
		0	1 41	555I		5.5	-78 25		5.2	5.5	r (UA.) $r (UA.)$ $4.6 (UA.)$
82	1	1 7	44	5631		18.1	-78 40		3.9	3.9	` ′

Num.	Constellatio	Bay.	UA.	SMP.	19 α	oo ð	LM.	HP.	UA.	Notae
83	Apus	β	47	5690	16 ^h 28 ^m 8	-77º 18'		4 [™] 2	4 [™] .5	r (UA.)
84	Octans	δ	19	4837	14 10.9	-83 13		4.1	4.7	
85	Circinus	α	17	4969	14 34.4	-64 32		3.4	3.5	
86	y .	ε	43	5188	15 9.2	-63 14		4.8	5.5	*
87		β	44	5193	9.7	-58 26		4.0	4.7	17
88		γ	47	5229	15.4	-58 58		4.4	5.2	
89	Triang. Austr.	T	1		15 0.4	-68 20	v	' 'ariabil	is	6 [™] 9-7 [™] 4
90		γ	5	5194	9.6	68 19		3.0	3.1	•
91		R	6	5202	10.8	-66 8	v	variabil	is	$6^{\text{M}}_{\cdot}7-7^{\text{M}}_{\cdot}4$
92			7		11.5	-67 7		1	6.6	
93		8	11	5305	27.6	-65 59		4.1	4.6	r (UA.)
94		β	17	5416	46.3	-63 7		3.1	3.1	
95		S	21	•	52.2	-63 29	,	ariabil	1	6 ^M 4-7 ^M 4
96		δ	25	5555	16 6.3	-63 26		4.0	4.3	r (UA.)
97		ζ	31	5625	17.7	-69 52		5.0	5.6	(/
98		α	42	5752	38.1	-68 51		1.9	2.2	r (UA.)

^{*} CGA. yellow.

Stellae comparandae nullibi assignantur.

Charta XXI.

6760 % Pavonis; Max.: 2404 765d3 (3. Dec. 1871) +9d0914 E.

Num.	Constellatio	Bay.	UA.	SMP.	α 29	οο δ	LM.	HP.	UA.	· Notae
ī	Triang. Austr.	Т	1		15 ^h 0 ^m 4	-68° 20'		ariabil		em m
2	angabt.	γ	5	5194	9.6	-68 19	ľ		.is 3 ^M ·1	6 [™] 9-7 [™] 4
3		Ŕ	6	5*9 4 5202	10.8	-66 8		ariabil		6 ^M 7-7 ^M 4
4			7	5202	11.5	-67 7	l ĭ	ariadii 		0.7-7.4
5		ε	11	F 20 F	27.6	-65 59		4 1	6.6	/TTA N
6		β	17	5305	46.3	-63 7		4.1	4.6	r (UA.)
7		S	21	5416	52.2	-63 29		3.1	3.1	cM M
8		S	25			1	l Y	ariabil		6 ^M 4-7 ^M 4
		Š	31	5555	16 6.3	-63 26		4.0	4.3	r (UA.)
9)	5625	17.7	-69 52		5.0	5.6	4
10		α	42	5752	38.1	-68 51		1.9	2.2	r (UA.)
11	Norma	t ¹	28	5486	15 55.4	-57 30		4.8	5.4	
12		ι^2	36	5516	16 1.1	-57 40		5.8	6.0	
13			41	5563	7.6	-57 39		5.8	6.0	
14		γ^1	46	5578	9.5	-49 49		5.0	5.4	
15		S	47		10.6	-57 39	v	ariabil	is	$6.4^{M}6-7.4^{M}6$
16		γ^2	49	559 3	12.4	-49 55		4.2	4.6	
17			55	5639	19.8	-58 22		5.8	6.1	
18		ક	{ 56 57	5640 5641	19.8	-47 20		4.7	4.8	$(UA.)$ $\begin{cases} 7 \\ 5 \end{cases}$
ıġ			58	•	21.4	-57 32		ł	6.6	r (UA.)
20	Apus	ð	ſ 40	5549	5.4	-78 27		4.7	5.2	r (UA)) M
-	Apus	U	1 41	555I	5.5	-78 25		5.2	5.5	$\begin{pmatrix} r & (UA) \\ r & (UA) \end{pmatrix} 4^{M} 6 (UA.)$
21		γ	44	5631	18.1	-78 40		3.9	3.9	,
22			47	5690	28.8	-77 18		4.2	4.5	r (UA.)
23		β ζ	60	5980	17 11.5	-67 40		4.7	5.4	, ,
4	Ara	R			16 31.4	-56 48	v	ariabil	is	6 [™] 8 –7 [™] 9
25		η	13	5767	41.1	-58 52	1	3.6	3.8	c (UA.)
26		ζ	23	5837	50.3	-55 50		3.0	3.2	r (UA.)
27		ε^1	25	5844	51.6	-53 0		4.2	4.2	V
28		ε2	31	5872	55.2	-53 5		5.4	5.9	
29		γ	50	6021	17.0	-56 17		3.4	3.6	
30	•	β	51	6020	17 17.0	-55 26		2.7	2.8	r (UA.)
31	1,1	S	60	6056	22.1	-60 36		3.8	3.7	- ()
32		α	62	6064	24.1	-49 48		2.9	2.9	•
33		σ	67	6093	28.2	-46 26		4.5	5.5	
34		λ	71	6124	32.7	-49 21		4.8	5.6	r (UA.)
35		θ	84	6338	58.8	-50 6		3.8	3.9	r (OA.)
36	Scorpius	ζ1	103	5809	16 46.9	-42 12	1	5.0	5.8	c (UA.)
37	-	ζ^2	104	5815	47.6	-42 11		3.5	3.6	r (UA.)
38			125	5924	17 3.5	-44 26		4.9	5.7	- (,

Num.	Constellatio	Bay.	UA.	SMP.	α 19	οο δ	LM.	HP.	UA.	Notae
39	Scorpius	η	126	5930	17 ^h 5 ^m 0	-43° 6′		3 [™] 4	3 [™] 6	
40		7	146	6019	17.0	-44 4		5.0	5.8	
41		v	152	6063	24.0	-37 13		2.8	3.2	
42		λ	156	6082	26.8	-37 2		1.8	2.0	
43		θ	160	6104	30.1	-42 56		2.0	2.1	r (UA.)
44		x	165	6154	35.6	-38 59		2.6	2.6	` ′
45		ι ¹	169	6191	40.6	-40 5	1	3.1	3.3	
46		G	172	6204	43.0	-37 1		3.2	3.4	
47		ι^2	173	6205	43.2	-40 3		4.9	5.6	
48			181	6264	49.5	-44 19		4.9	5.4	
49			183	6276	50.7	-41 42		4.7	5.3	r (UA.)
50	Pavo	η	2	6155	17 35.9	-64 41	3.8	3.5	3.8	
5 ¹		π	16	6339	59.0	-63 40	4.7	4.4	4.6	
52		L ¹	17	6355	18 1.1	-62 1		5.4	5.8	
53			21	6400	6.2	-63 5		5.6	6.0	r (UA.)
54		Š	26	6442	14.0	-61 32	5.0	4.2	4.4	r (UA.)
55		ν	33	6499	22.0	-62 20	4.9	4.8	4.8	$ UA.) \begin{cases} 5 \\ 7^3/4 \end{cases} $
56		5	35	6557	31.4	-71 31	4.3	4.0	4.2	r (UA.)
57		Į.	37	6564	32.6	-64 44		6.4	6.9	
58		ľ	38	6566 .	33.9	-64 39		5.8	6.2	r (UA.)
- ,			39	6572	35.6	-64 58	5.3	4.8	5.3	
59 60		θ	43	6594	38.8	-65 11		5.9	6.1	
61		λ	45	6617	43.0	-62 18	4.4	4.4	4.3	M _a M
62		×	46	6640	46.6	-67 22	7	ariabil		3 ^M 8-5 ^M 2
63		ω	51	6650	49.7	-60 20	1	5.1	5.4	r *
64			52 56	6668	52.8	-68 54		5.9	6.1	
65				6703	59.3	-68 35	5.7	5.2	5.7	TOTAL NICC CONT
66			57 60	6723	19 2.0	-60 9		cum.	5.8	neb. (UA.) NGC. 6752.
67			70	6754	7.2 37.9	-66 50 -72 45	l	5.6	5.6	
68			80	6916	48.7	-59 10		5.5 5.3	5.7 5.5	
69		ε	78	6954	49.0	-73 10	1	4.0		**
70		μ^1	82	6957 6966	50.7	-67 13		5.7	4.0 5.9	-
71		μ^2	83	6969	52.1	-67 13		5.2	5.6	r (UA.)
72		,	85	6979	53.3	-59 39	1	4.9	5.7	c (UA.) ***
73	9	δ	88	7006	58.8	-66 26		3.6	3.5	r (UA.)
74		α	99	7074	20 17.7	-57 3		2.0	2.1	(011.)
75		φ^1	104	7113	27.3	-60 55	ļ	4.7	4.9	
76		Q	107	7121	29.2	-61 52		5.0	4.9	var.? (UA.)
77		g^2	109	7 1 34	31.7	-60 53		5.2	5.5	r (UA.)
78		v	110	7137	32.9	-67 7	1	5.3	5.6	var.? (UA.)
79		β	111	7150	36.0	-66 34	1	3.5	3.3	'
80		7	128	7320	21 18.2	-65 49		4.2	4.5	
81	Telescopium	8	3	6374	18 3.8	-45 58		4.5	5.2	r (UA.)
82		α	13	6484	19.6	-46 1		3.7	3.5	
83	Q+	ζ	14	6491	21.1	-49 7		4.0	4.5	r (UA.)
84		δ^1	16	6510	24.4	-45 59		5.1	5.7	
85	2 4 11	δ2	17	6513	24.6	-45 50.	1	5.3	5.7	l.

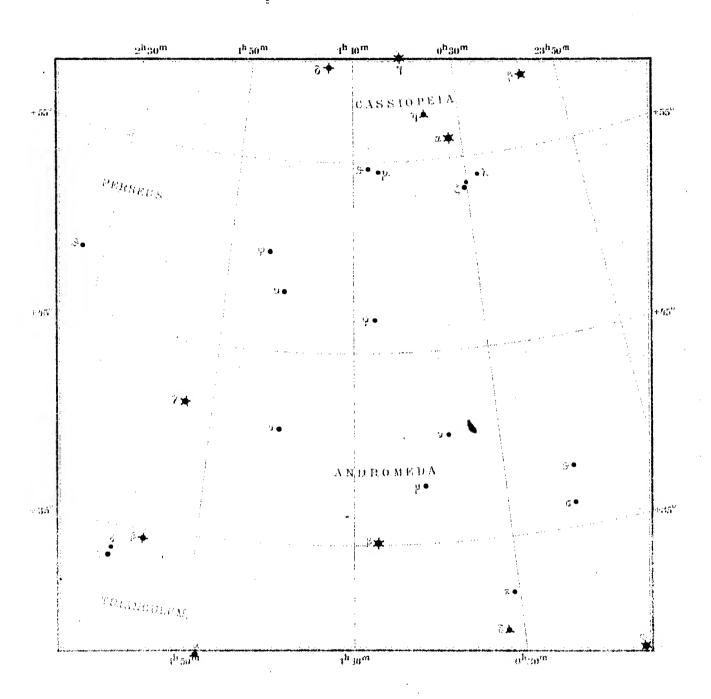
^{* 7&}lt;sup>M</sup>·4, +1^m·6, -0'.5 (UA.). ** UA. blue, 3^M·6-4^M·2.

^{***} CGA. orange.

Num.	Constellatio	Bay.	UA.	SMP.	α 19	00 δ	LM.	HP.	UA.	Notae
86	Telescopium	ж	31	6624	18 ^h 44 ^m 7	-52º 13'		5 [™] 2	5 ^M .7	r (UA.)
87		λ	41	6656	50.5	-53 4		4.9	5.2	- (01)
88		Q	45	6696	58.4	-52 29		5.0	5.7	
89		η	55	6792	19 14.8	-54 37		5.0	5.4	
90		ı	64	6857	27.8	-48 19		5.0	5.4	
91	Corona Austr.	θ	15	6523	18 26.4	-42 23		4.4	5.1	
92		ζ	39	6683	56.0	-42 14		4.8	5.2	
93		δ	43	6716	19 1.4	- 40 39		4.4	5.0	c (UA.)
94	Sagittarius	$oldsymbol{eta}^1$	{168 \169	6797 } 6798 }	19 15.5	-44 39		4.1	3.8	$(UA.) \left\{ \begin{array}{l} 4 \\ 6^3/4 \end{array} \right.$
95		β^2	172	6803	16.0	-44 59		4.4	4.4	' [*]
96		α	177	6805	17.0	-40 48		4.1	4.0	

Charta I.

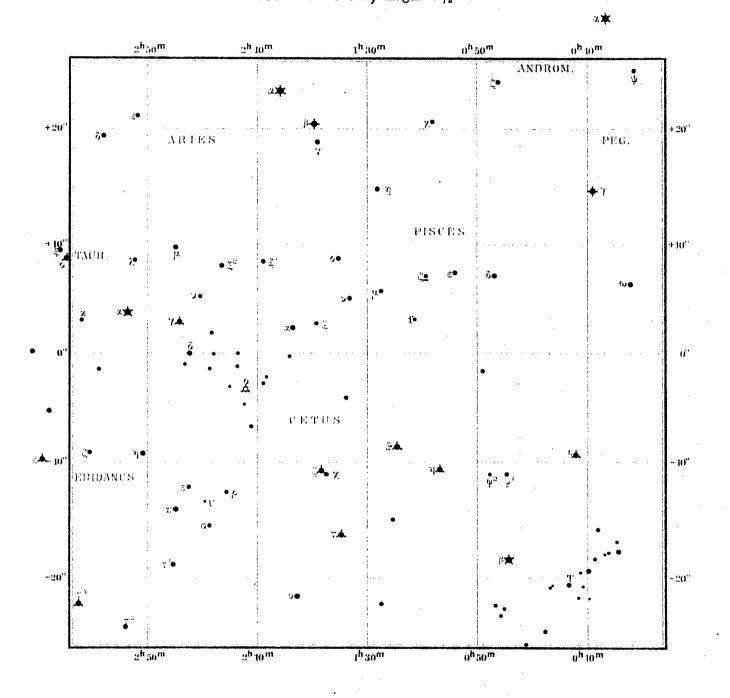
209 α Cassiopeiae, Magn.: 2-3.



Charta II.

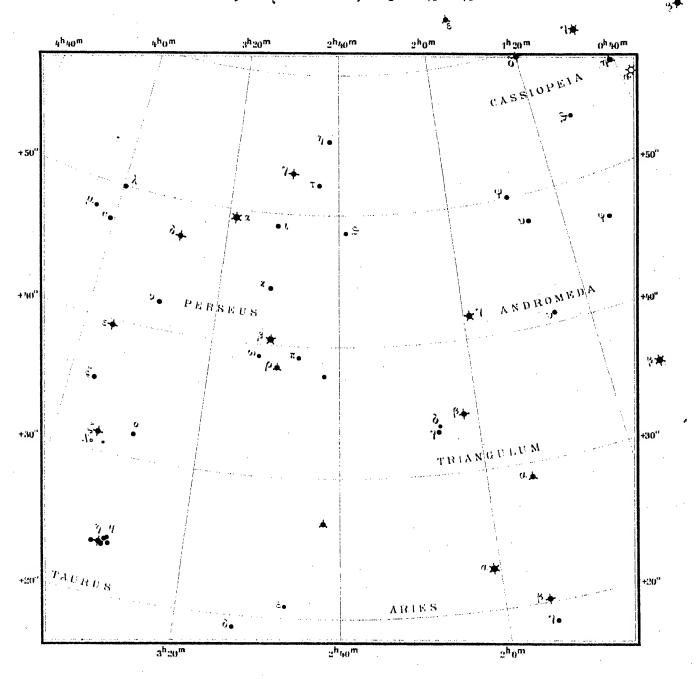
T Ceti, Magn.: 5-61/2.

806 O Ceti, Magn.: 31/2-9.



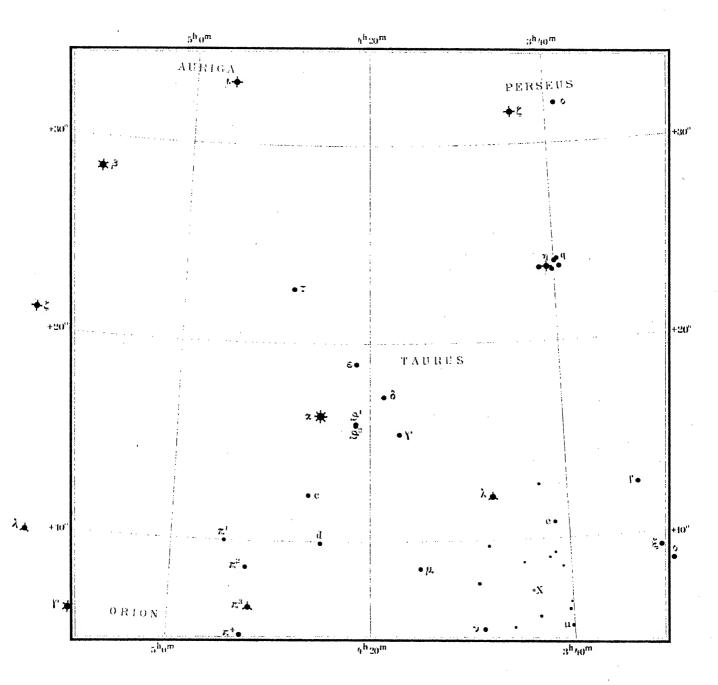
Charta III.

1072 *Q* Persei, Magn.: 3¹/₂—4.
1090 *β* Persei, Magn.: 2¹/₂—3¹/₂.



Charta IV.

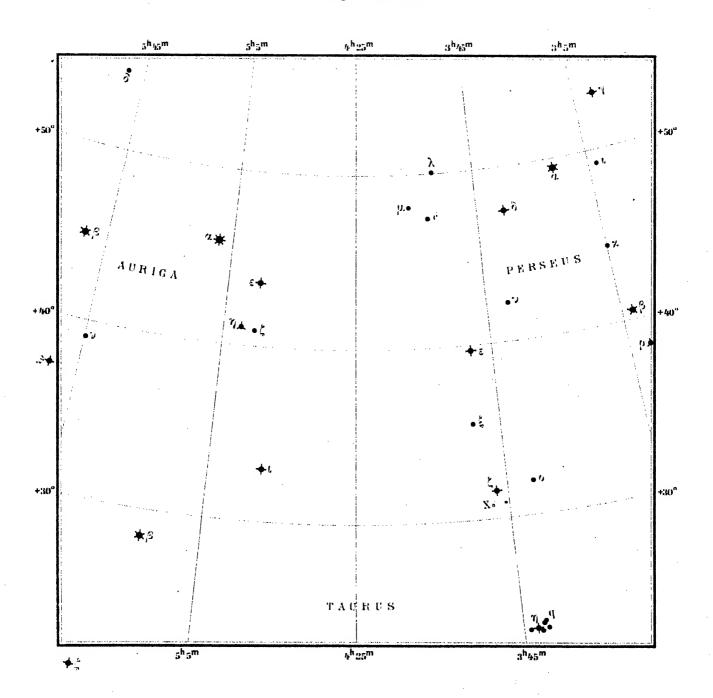
1411 **Tauri,** Magn.: 31/2-4.



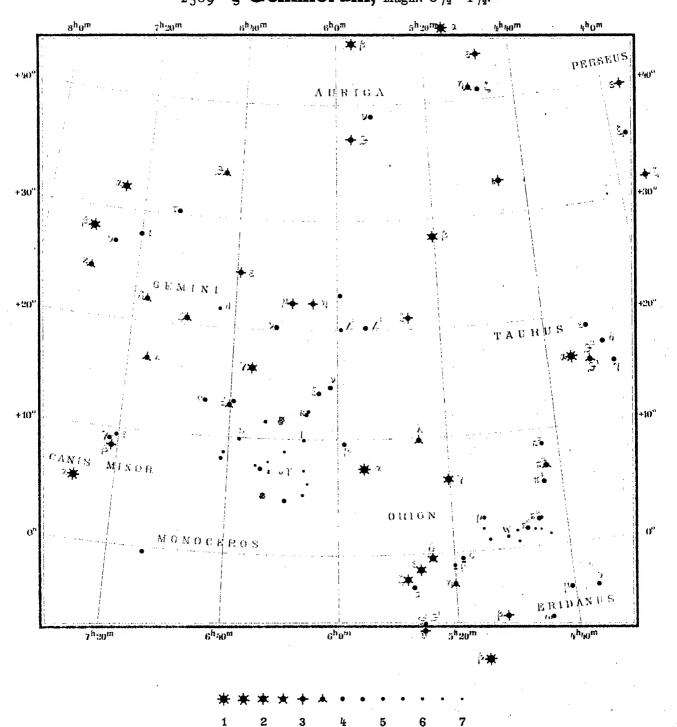
Series V.

Charta V.

1768 & Aurigae, Magn.: 3-41/2.

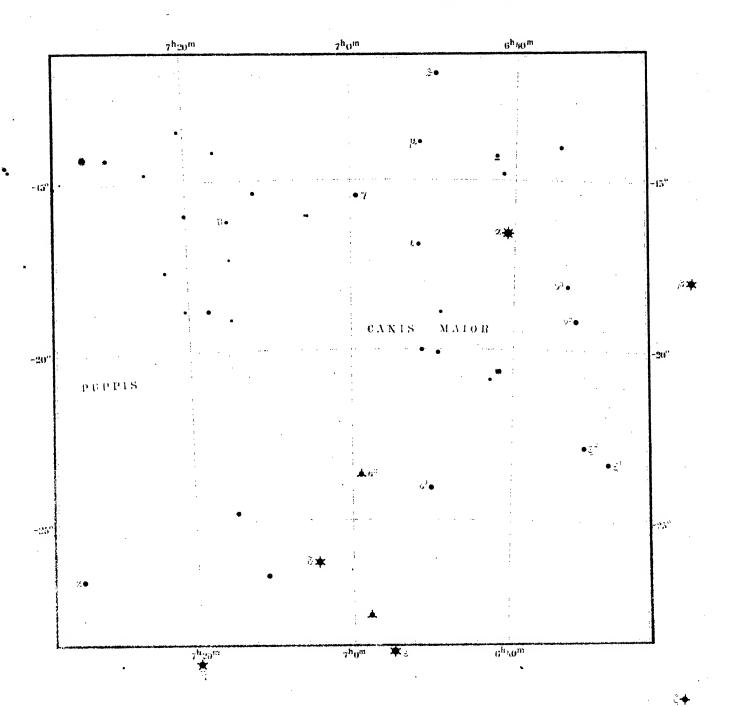


1800 W Orionis, Magn.: 6-7. 2098 α Orionis, Magn.: 1-11/2.
2213 η Geminorum, Magn.: 3-4. 2279 Τ Monocerotis, Magn.: 6-71/2.
2509 ζ Geminorum, Magn.: 31/2-41/2.



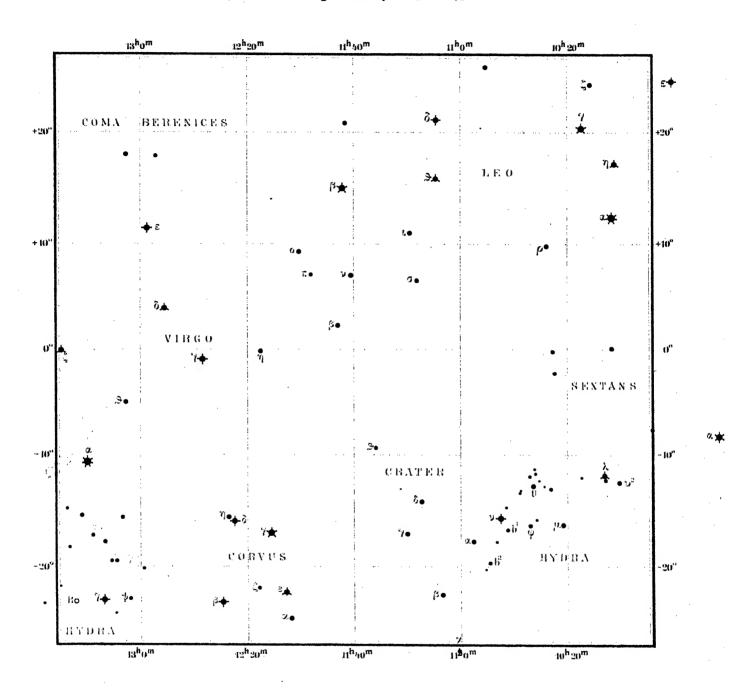
Charta VII.

2610 R Canis Maioris, Magn.: 6-61/2.



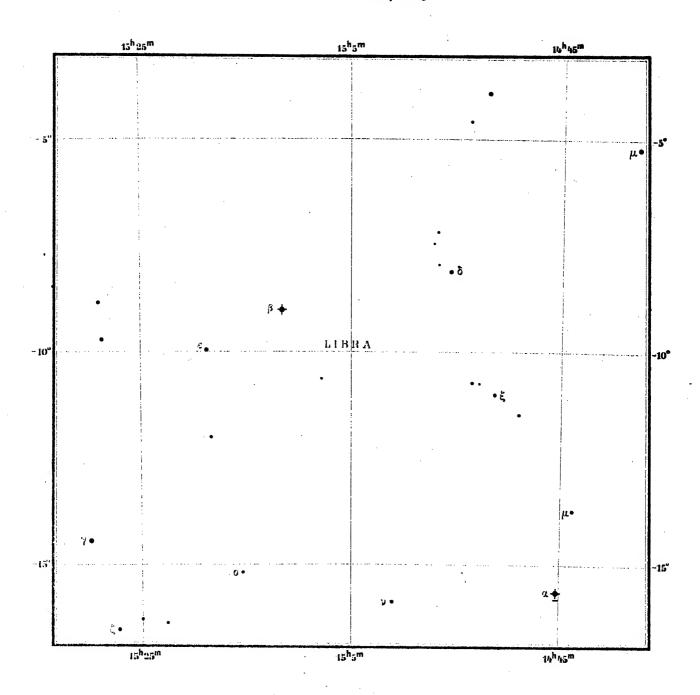
Charta VIII.

3796 U Hydrae, Magn.: 4¹/₂-6.
4826 R Hydrae, Magn.: 4¹/₂-10.

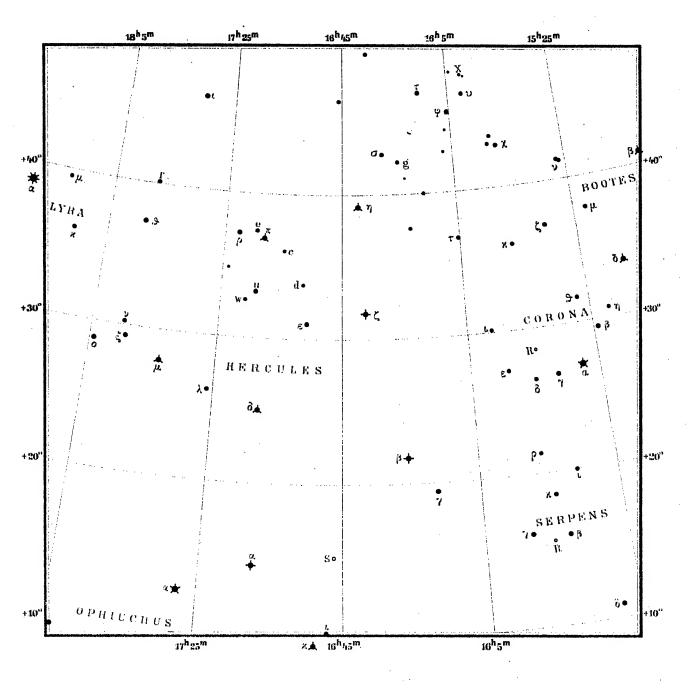


Charta IX.

5374 δ Librae, Magn.: 5-6.

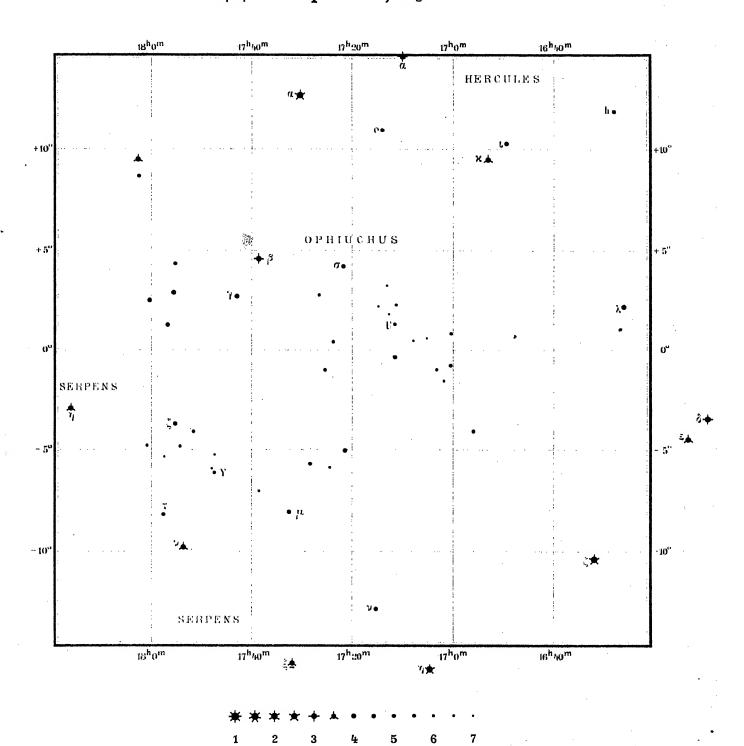


5758 X Herculis, Magn.: 6—7. 5912 g Herculis, Magn.: $5-5^{1}/_{2}$.
6181 α Herculis, Magn.: 3—4. 6202 u Herculis, Magn.: $4^{1}/_{2}-5^{1}/_{2}$.



Charta XI.

6189 U Ophiuchi, Magn.: 6-61/2.
6404 Y Ophiuchi, Magn.: 6-7.

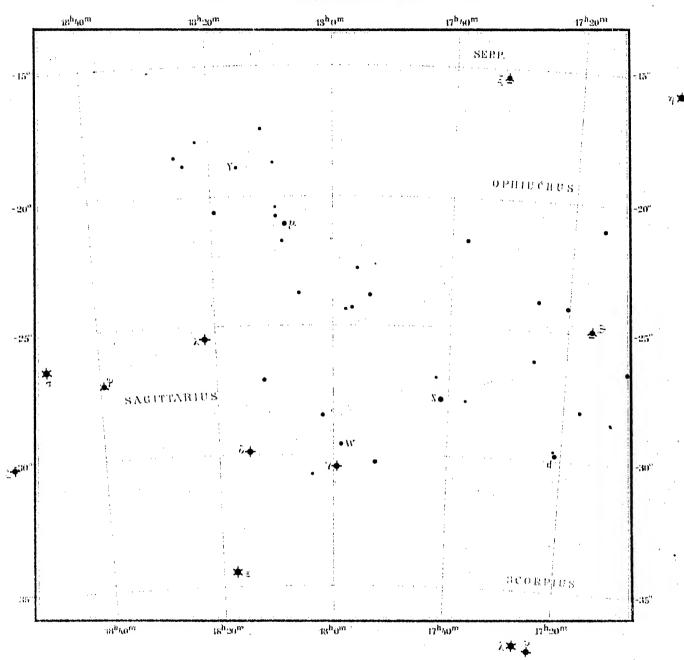


Charta XII.

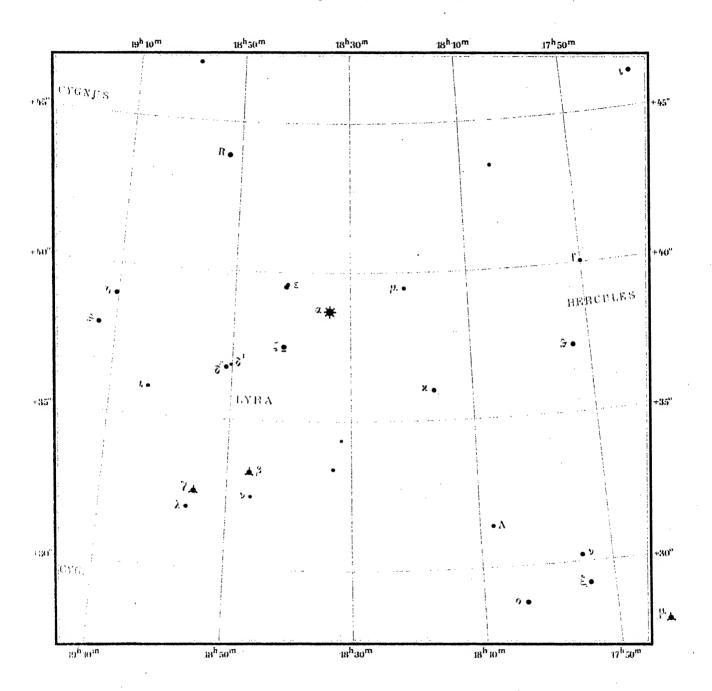
X Sagittarii, Magn.: 4-6. 6368

W Sagittarii, Magn.: 5-6. Y Sagittarii, Magn.: 6-6¹/₉. 6472

6573

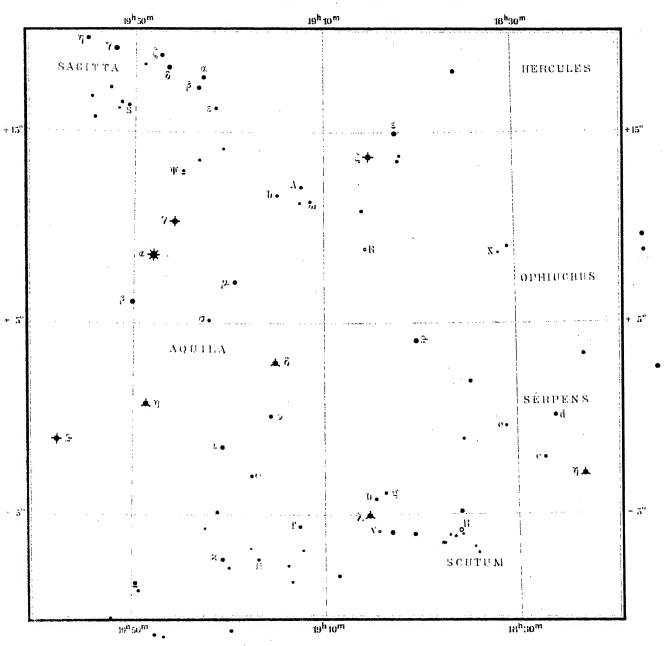


Charta XIII.



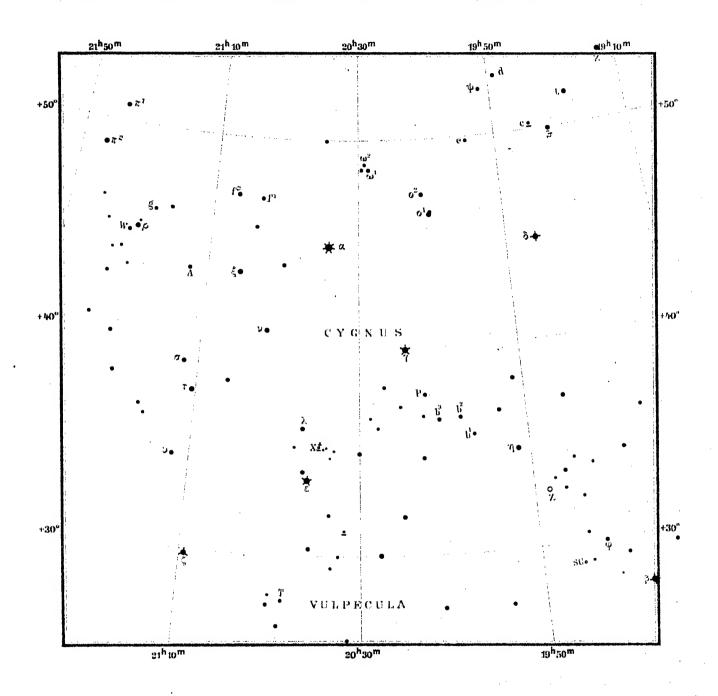
66 1 3 d Serpentis, Magn.: $5-5^{1}/_{2}$. 6733 R Scuti, Magn.: $5-7^{1}/_{2}$. 6984 U Aquilae, Magn.: 6-7. 7124 η Aquilae, Magn.: $3^{1}/_{2}-4^{1}/_{2}$.

7149 S Sagittae, Magn.: 51/2-61/2.



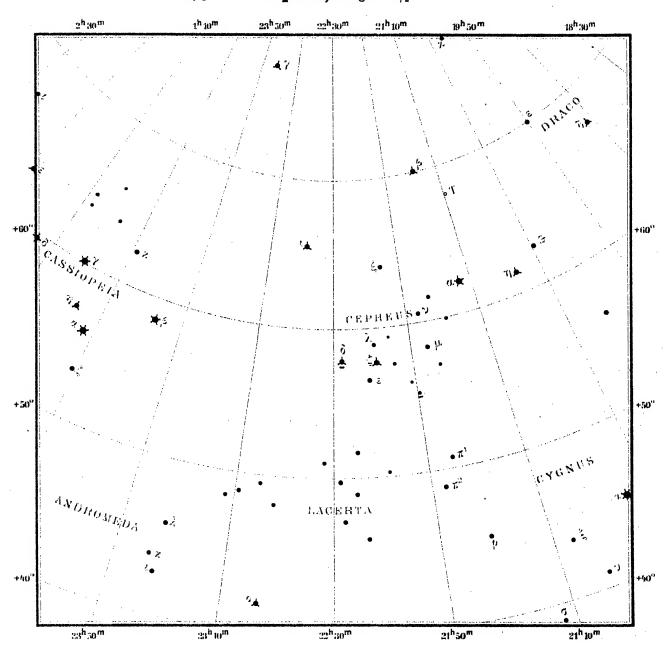
Charta XV.

7120 χ Cygni, Magn.: 5—13 $^{1}/_{2}$. 7437 χ Cygni, Magn.: $6^{1}/_{2}$ — $7^{1}/_{2}$. 7483 χ Vulpeculae, Magn.: $5^{1}/_{2}$ — $6^{1}/_{2}$. 7754 χ Cygni, Magn.: $5^{1}/_{2}$ — $6^{1}/_{2}$.



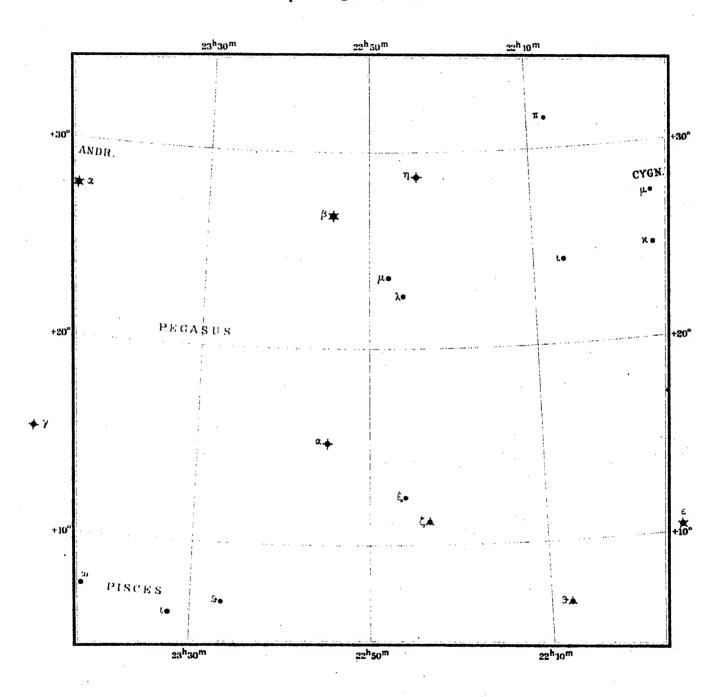
Charta XVI.

391 32 Cassiopeiae, Magn.: 5¹/₂-6.
7803 μ Cephei, Magn.: 4?-5?
8073 δ Cephei, Magn.: 3¹/₂-5.



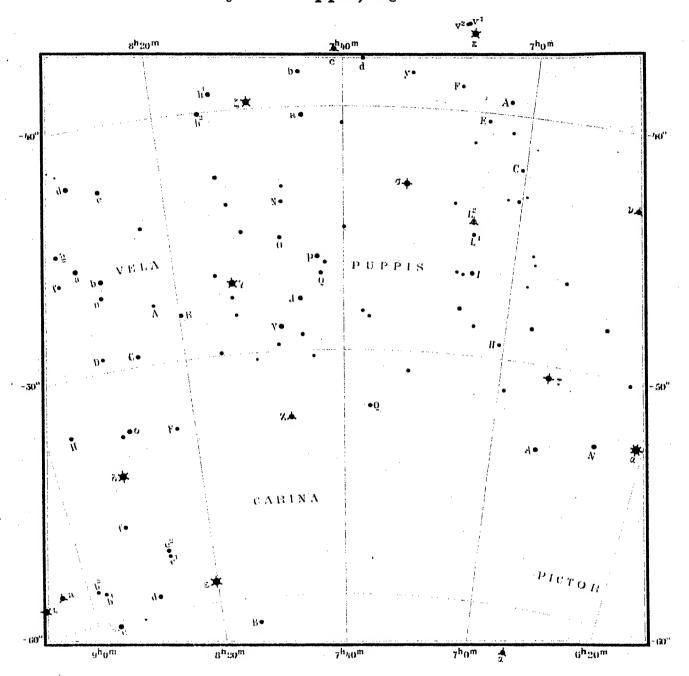
Charta XVII.

8273 \(\beta \) Pegasi, Magn.: 2-21/2.



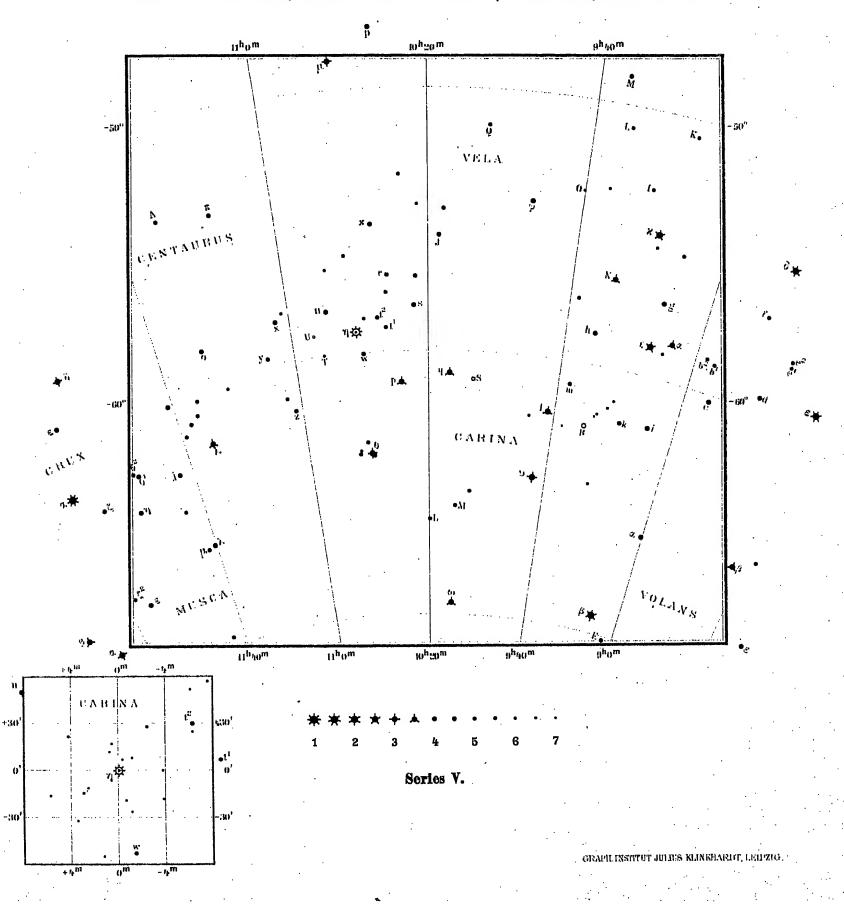
Charta XVIII.

2583 L² Puppis, Magn.: 3¹/₂-6¹/₂.
2852 V Puppis, Magn.: 4-5.



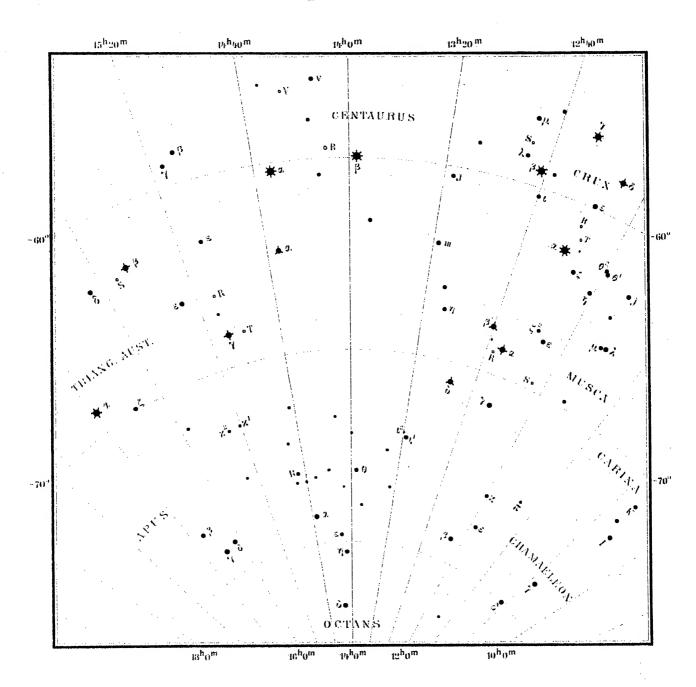
3409 N Velorum, Magn.: 31/2-41/2? 3495 1 Carinae, Magn.: 31/2-5.

3418 R Carinae, Magn.: $5-9^{1}/_{2}$. 3847 η Carinae, Magn.: >1-7.5.



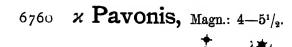
Charta XX.

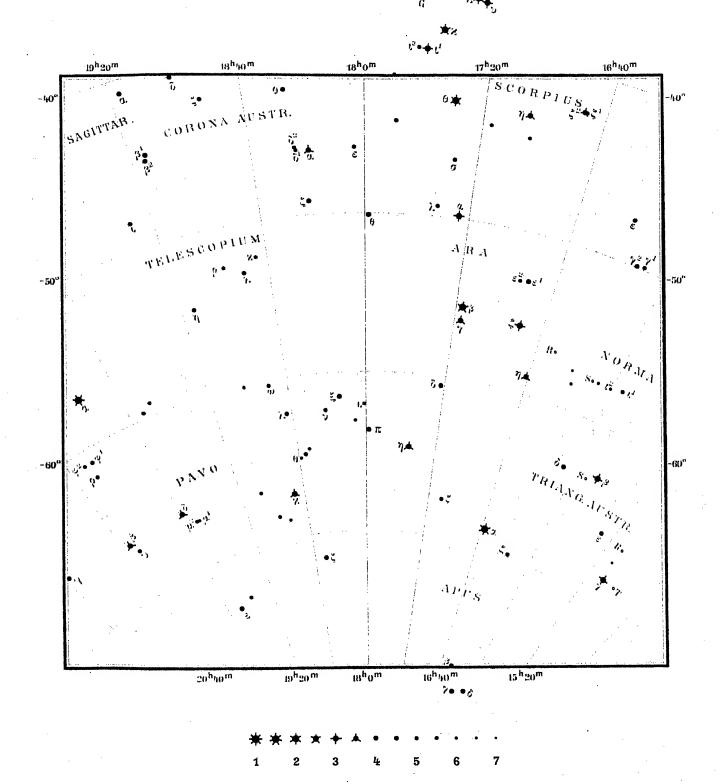
5013 θ Apodis, Magn.: 5¹/₂-6¹/₂.
5319 R Apodis, Magn.: 5¹/₂-6?



Series V.

Charta XXI.





Atlas Stellarum Variabilium.

Index Chartarum quae in Serie V. continentur.

Die Verlagshandlung liefert diesen vorläufigen Index zur leichteren Orientierung und beabsichtigt später durch einen Appendix zu ersetzen, wenn die IV. Serie erschienen sein wird.

For the convenience of subscribers this Index is provisionally supplied by the publisher. It will be sy by an Appendix when the IV. Series leaves the press.

Cet Index est inséré provisoirement pour la convenance des abonnés: il sera remplacé par un Appeaquand la IV. Série sortira de la presse.

Num.	Nomen Stellae	Charta	Num.	Nomen Stellae	Charta	Num.	Nomen Stellae	Charta
							A Section of the section of	İ
100	T Ceti	II	3418	R Carinae	XIX	6613	d Serpentis	XIV
209	α Cassiopeiae	I	3495	l Carinae	XIX	6733	R Scuti	XIV
391	32 Cassiopeiae	XVI	3796	U Hydrae	VIII	6758	β Lyrae	XIII
806	o Ceti	n	3847	η Carinae	XIX	6760	× Pavonis	XXI
1072	ρ Persei	III	4826	R Hydrae	VIII	6794	R Lyrae	XIII
1090	β Persei	ш	5013	→ Apodis	xx	6984	U Aquilae	XIV
1411	λ Tauri	IV	5319	R Apodis	XX	7120	χ Cygni	xv
1768	ε Aurigae	v	5374	∂ Librae	IX	7124	η Aquilae	XIX
1800	W Orionis	VI	5758	X Herculis	x	7149	S Sagittae	XIV
2098	α Orionis	VI	5912	g Herculis	x	7437	X Cygni	xv
2213	η Geminorum	VI	6181	α Herculis	x	7483	T Vulpeculae	xv
2279	T Monocerotis	VI	6189	U Ophiuchi	XI	7754	W Cygni	xv
2509	ζ Geminorum	VI	6202	u Herculis	x	7803	μ Cephei	XVI
2583	L ² Puppis	xvIII	6368	X Sagittarii	XII	8073	δ Cephei	xvi
2610	R Canis Maioris	VII	6404	Y Ophiuchi	XI	8273	β Pegasi	xvII
2852	V Puppis	xvIII	6472	W Sagittarii	XII			
3409	N Velorum	XIX	6573	Y Sagittarii	XII	1		

Atlas Stellarum Variabilium.

INDEX GENERALIS

Chartarum et Constellationum.

Explicationes:

- I. In Indice Chartarum inscriptionibus Ch. et AR. D. numeri indicantur, quibus DD. Chandler et Pickering in suis catalogis usi sunt. Series VI subdivisa est numeris 1, 2, 3, qui respondent Seriebus I, II, III, quas supplet.
- II. Index Constellationum similis est illi, qui in vol. LV speculae Harvardensis (pp. 71—74) invenitur. In ultima columna sub littera B sequuntur nomina stellarum a Bayero aliisque adhibita. Ibi numerus latinus inclinatus indicat chartam Seriei V.

I. Index Chartarum.

A. Index Chartarum, quae in Seriebus I, II, III continentur.

Ch.	AR. D.	Variabilis	Series	Ch.	AR. D.	Variabilis	Series	Ch.	AR, D.	Variabilis	Series
	h m o	T Andromedae	ш	.0	h m o	TT Promis	Y		h m o	W Saamii	I
103	00 17 26	T Cassiopeiae	ш	2857	07 56 12	U Puppis R Cancri	I	5795	16 05 19 16 11 22a	W Scorpii R Scorpii	\
107	00 17 55	R Andromedae	ш	2946 2976	08 11 12 08 16 17	V Cancri	II I	5830 5831	16 11 22a	S Scorpii] [
112	00 19 09	S Ceti	I	3060	08 30 19	U Cancri	II	5889	16 21 19	U Herculis	ľп
114 161	00 26 14	T Piscium	Ϊ	3170	08 48 03	S Hydrae	ı ıı	5928	16 28 15	T Ophiuchi	I
	00 40 47	U Cassiopeiae	III	3184	08 40 03 08 50 0H	T Hydrae	I		16 28 16	S Ophiuchi	Ì
243	01 12 72	S Cassiopeiae	m		09 39 34	R Leonis min.	ın	5931	16 31 87	W Herculis	in
432	01 12 08	S Piscium	II	3477 3567	09 54 21	V Leonis	II	5950	16 32 66	R Draconis	III
434 466	01 17 12	U Piscium	II I	3825	10 87 69	R Ursae Mai.	III	5955 6044	16 47 15	S Herculis	II II
	01 25 02	R Piscium	n	3890	10 48 14	W Leonis	II	6132	17 02 15	R Ophiuchi	ī
513 6-0		U Persei	III		11 05 06	S Leonis	п	6512	18 05 81	T Herculis	m
678	01 58 54	S Arietis	II	3994	11 59 19	R Comae Beren.	п	6849	19 01 08	R Aquilae	II
715	01 59 12	R Arietis	11	4315	12 09 05		I		19 10 17	_	I
782	02 10 24		ш	4377	12 14 18	T Virginis R Corvi		6903	19 10 19	T Sagittarii	
814	02 15 58	S Persci		4407			I	6905		R Sagittarii	I
845	02 20 00	R Ceti	I	4492	12 28 03	Y Virginis	ın	6921	19 13 19	S Sagittarii	
906	02 81 88	R Trianguli	III	4511	12 31 60	T Ursae Mai.		6923	19 13 21	Z Sagittarii	III
1113	08 05 14	U Arietis	II	4557	12 89 61	S Ursae Mai.	III.IV	7045	19 84 49	R. Cygni	1
1222	08 23 35	R Persei	ш	4596	12 46 06	U Virginis	n	7120	19 46 82	χ Cygni	III. V
1537	04 16 19	T Tauri	II	4816	13 22 02	V Virginis	I	7192	19 58 49	Z Cygni	m
1574	04 22 15	W Tauri	II	4847	13 27 06	S Virginis	I	7234	20 05 14	R Capricorni	I
1577	04 22 09	R Tauri	п	4948	18 44 4()	R Canum Ven.	III	7252	20 08 22	W Capricorni	I
1582	04 28 09	S Tauri	II	5037	13 59 08	RR Virginis	I	7261	20 10 08	R Delphini	II
1623	04 30 65	T Camelopard.	ш	5070	14 05 12	Z Virginis	I	7428	20 88 47	▼ Cygni	III
1717	04 46 17	V Tauri	п	5157	14 19 54	S Bootis	III	7431	20 88 16	S Delphini	п
1761	04 58 07	R Orionis	п	5190	14 25 84	R Camelopard.	III	7444	20 40 16	T Delphini	п
1805	05 00 08	V Orionis	п	5237	14 32 27	R. Bootis	III	7455	20 42 15	U Capricomi	1
1855	05 09 53	R Aurigae	ııı	5249	14 34 17	V Librae	I	7468	20 44 05	T Aquarii	I
1923	05 20 84	S Aurigae	m	5338	14 49 18	U Bootis	II	7560	20 59 23	R Vulpeculae	11
1944	05 24 04	S Orionis	I	5430	15 05 19	T Librae	I	757 ^I	21 01 24	V Capricorni	I
1981	05 80 68	S Camelopard.	ш	5494	15 15 20	S Librae	I	7577	21 02 21	X Capricorni	I
1986	05 30 05a	T Orionis	I	5501	15 17 14	S Serpentis	II	7659	21 16 15	T Capricorni	I
2013	05 35 31	U Aurigae	m	5504	15 17 31	S Coronae Bor.	1	7733	21 28 14	Y Capricomi	I
2100	05 49 20	U Orionis	II	5583	15 30 20	X Librae	I	7779	21 36 78	S Cephei	III
2258	06 16 47	V Aurigae	ш	5593	15 32 15	W Librae	I	7907	21 57 17	U Aquarii	I
2478	06 53 55	R Lyncis	ш	56x7	15 36 20	U Librae	I	7944	22 04 12	T Pegasi	п
2528	07 01 22a	R Geminorum	п	5644	15 40 20	Z Librae	I	8068	22 24 89	S Lacertae	III
2625	07 17 18	V Geminorum	II	5667	15 44 28	R Coronae Bor.	III	8153	22 38 41	R Lacertae	ш
2684	07 27 08	S Canis min.	п	5675	15 46 39	V Coronae Bor.	m	8230	22 51 20	S Aquarii	I
2691	07 28 11	T Canis min.	п	5677	15 46 15	R Serpentis	п	8290	28 01 10	R Pegasi	II
2735	07 85 08	U Canis min.	п	5704	15 50 18	RR Librae	I	8373	23 15 08	S Pegasi	п
2742	07 37 23	S Geminorum	п	576x	16 00 21	Z Scorpii	I	8512	23 38 15	R Aquarii	I
2780	07 43 23	T Geminorum	n	5770	16 01 18	R Herculis	n	8597	23 52 09	V Ceti	I
2815	07 49 22	U Geminorum	II	5776	16 02 21a	X Scorpii	I				

B. Index Chartarum, quae in Serie IV continentur.

Ch.	AR, D.	Variabilis	Series	Ch.	AR. D.		Variabilis	Series	Ch.	AR. D.	Variabilis .	Ser
320	h m o 00 53 81	U Cephei		4318	h m o 11 59 05	RX	Virginis		7085	h m o 194048	RT Cygni	
806	02 14 03	o Ceti	v	4333	12 02 06		Virginis		7085a		SU Cygni	
893	02 28 13	U Ceti		4521	12 33 07		Virginis		7106	19 44 27	S Vulpeculae	
976	02 42 17	T Arietis	İ l	4535	12 35 56		Ursae Mai.		7235	20 05 25	W Vulpeculae	
980	02 43 56	W Persei		4557	12 39 61		Ursae Mai.	III	7239	20 06 47	SV Cygni	
1205	03 20 48	Y Persei		4665	12 57 05a	RT	Virginis		7242	20 07 15a	S Aquilae	
1279	03 38 62	U Camelopard.		4805	13 20 02		Virginis		7244		RW Aquilae	
1375	08 49 30	X Persei		4826	13 24 22		Hydrae	v	7257	20 09 16	R Sagittae	ľ
1438	08 59 16	V Eridani		5194	14 25 39		Bootis		7259	20 09 38	RS Cygni	
1752	04 52 21	U Leporis		5221	14 30 17	RV	Librae		7268	20 11 21	RT Capricorni	
1771	04 55 14	R Leporis		5484	15 14 32	υ	Coronae Bor.		7299	20 16 47	U Cygni	
1929	05 21 42	Y Aurigae	1 1	560 I	15 33 78	S	Ursae min.	. 1	735I	20 25 39	RW Cygni	ł
2038	05 39 20	Y Tauri		5687	15 47 48	ST	Herculis		7378	20 29 46	SZ Cygni	
2122	05 53 53	Z Aurigae		5768	16 01 50		Herculis		7394	20 32 26	V Vulpeculae	
2170	06 01 24	S Leporis		5887	16 21 12	v	Ophiuchi	1	7446	20 40 17	U Delphini	
2266	06 17 02	V Monocerotis	VI	5948	16 31 72		Ursae min.		7450	20 41 02	V Aquarii	
2279	06 19 07	T Monocerotis	v	6005	16 40 55	S	Draconis		7488	20 48 34	Y Cygni	
2328	06 28 08	Z Monocerotis		6442	17 58 15	Z	Herculis		7521	20 53 39	VX Cygni	
2335	06 29 15	W Geminorum		6449	17 54 58	Т	Draconis		7539	20 56 42	TX Cygni	
2475	06 52 OR	X Monocerotis		6636	18 26 19	U	Sagittarii		7563	21 00 39	VY Cygni	
2539	07 03 10	R Canis min.		6636а	18 26 12	RX	Herculis		7570	21 01 16	RS Capricorni	
2676	07 26 09	U Monocerotis		6682	18 33 08	x	Ophiuchi		7609	21 08 68	T Cephei	
2899	08 03 22	RU Puppis		6726	18 40 08	Т	Aquilae	1	7783	21 87 58	RU Cygni	
3028	08 24 05	RT Hydrae		6749	18 44 08	S	Scuti	1	7795	21 89 87	RV Cygni	
3089	08 34 09	RV Hydrae		6773	18 48 12	U	Scuti		7846	21 47 42	VZ Cygni	
3109	08 88 19	S Cancri		6834,	18 59 05	v	Aquilae		8182	22 43 54	U Lacertae	1
3179	08 49 17	X Cancri		6894a	19 09 26	1	Lyrae		8187	22 44 55	V Lacertae	1
3186	08 51 20	T Cancri		6927	19 14 19		Sagittae		8369	23 14 25	W Pegasi	
3247	09 01 51	V Ursae Mai.		6943	19 17 17	T	Sagittae		8395	23 19 17	RU Aquarii	
3460	09 86 56	W Ursae Mai.		6974	19 22 42		Lyrae		8562	23 47 16	Z Aquarii	
3493	09 42 11	R Leonis		7008	19 28 43		Cygni		8582	23 50 48	RS Andromedae	
3519	09 46 22	Y Hydrae		7034	19 32 20		Vulpeculae		8598	23 52 15	U Pegasi	
3649	10 08 60	U Ursae Mai.		7063	19 37 32		Cygni		8600	23 58 50	R Cassiopeiae	
3881	10 46 20	V Hydrae		, ,		14	, ,					

C. Index Chartarum, quae in Serie V continentur.

Ch.	AR. D.	Variabilis	Charta	Series	Ch.	AR. D.	Variabilis	Charta	Series
100	h m o	T Ceti	II		5758	h m o 155947	X Herculis	<u> </u>	
209	00 84 55	α Cassiopeiae	1		5912	16 25 42	g Herculis	$\ X \ $	ļ
806	02 14 03	o Ceti	II	IV	6181	171014	α Herculis		
1072	02 58 38	e Persei	77,		6189	171101	U Ophiuchi	XI	
1090	08 01 40	β Persei	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		6202	17 18 83	u Herculis	λ	
1411	03 55 12	λ Tauri	II		6368	17 41 27	X Sagittarii	XII	
1768	04 54 43	a Aurigae	ν		6404	17 47 06	Y Ophiuchi	XY	
1800	05 00 01	W Orionis			6472	17 58 29	W Sagittarii	h	
2098	05 49 07	α Orionis	11		6573	18 15 18	Y Sagittarii	XII	
2213	06 08 22	7 Geminorum	14		6613	18 22 00	d Serpentis	lí	
2279	06 19 07	T Monocerotis		IV	6733	18 42 05	R Scuti	XIV	-
2509	06 58 20	ζ Geminorum	J)		6758	18 46 88	β Lугае	XIII	
2583	07 10 44	L ² Puppis	XVIII		6760	18 46 67	z Pavonis	XXX	
2610	07 14 16	R Canis Mai.	VII		6794	18 52 43	R Lyrae	XIII	
2852	07 55 4R	V Puppis	XVIII		6984	19 24 07	U Aquilae	XIII	
3409	092856	N Velorum	n		7120	19 46 32	χ Cygni	XV	111
3418	09 29 62	R Carinae	XXX		7124	19 47 00	η Aquilae	1	
3495	09 42 62	l Carinae	J		7149	195116	S Sagittae	} XZI"	
3796	10 32 12	U Hydrae	VIII		7437	20 39 35	X Cygni	ħ.	į
3847	10 41 59	η Curinac	XIX		7483	20 47 27	T Vulpeculae	XF	İ
4826	13 24 22	R Hydrae	VIII	ΙV	7754	21 82 44	W Cygni	H	
5013	13 55 76	# Apodis	XX		7803	21 40 58	μ Cephei	1	
5319	14 46 76	R Apodis	N. A.		8073	22 25 57	δ Cephei	XIT	
5374	14 55 OX	d Librae	IX		8273	22 58 27	β Pegasi	XIII	1

D. Index Chartarum, quae in Serie VI (1, 2, 3) continentur.

Ch.	AR. D.	Variabilis	VI	Ch.	AR, D.	Variabilis	VI	Ch.	AR. D.	Variabilis	VI
65	h m n 00 10 46	X Andromedae	8	3425	h m o 09 30 14	X Hydrae	1	7399	h m o 20 33 17	W Delphini	2
188	00 81 79	Y Cephei	8	447 I	12 25 82	T Canum Ven.	8	7435	20 39 05	Y Aquarii	1
268	00 44 35	V Andromedae	8	4573	12 42 04	RU Virginis	2	7448	20 41 04	W Aquarii	1
276	00 45 88	RR Andromedae	8	5174	14 22 05	RS Virginis	2	7458	20 43 18	V Delphini	2
419	01 09 40	U Andromedae	8	5405	15 00 18	RT Librae	1	7492	20 48 46	RZ Cygni	3
562	01 88 88	Y Andromedae	8	5511	15 18 22	RS Librae	1	757 I a	21 01 29	TW Cygni	8
659	01 49 58	X Cassionciae	8	5566	15 27 14	RU Librae	· 1	7582	21 03 82	X Cephei	8
787	02 11 48a	W Andromedae	8	5688	15 47 15	R Librae	1	7590	21 05 16	Z Capricorni	1
1166	03 14 01	X Ceti	1	5775	16 02 10	U Serpentis	2	7594	21 05 04	RS Aquarii	1
1803	05 00 22	T Leporis	1		16 06 25	RU Herculis	8	7619	21 09 03	RR Aquarii	1
1921	05 20 86	W Aurigae	8	5856	16 16 07	W Ophiuchi	1	7793	21 38 43	SS Cygni	8
2000	05 38 26	RR Tauri	3	5903	16 23 19	Y Scorpii	1	7896	21 56 05	V Pegasi	2
2080a	05 46 15a	Z Tauri			16 28 07	SS Herculis	2	7961	22 06 13	Y Pegasi) <u> </u>
2081	05 46 15c	RU Tauri	2	6207	17 14 01	Z Ophiuchi	- 2	7964	22 07 14	RS Pegasi	2
2186	06 04 50	X Aurigae	3	6225	17 17 28	RS Herculis	2	7999	23 13 21	X Aquarii	1
2266	06 17 02	V Monocerotis	1. IV	6624	18 28 06	T Serpentis	2	8026	22 17 22	RT Aquarii	1
2362	06 88 08	R Monocerotis	2	6685	18 84 43	Y Lyrae	3	8324	23 07 59	V Cassiopeine	8
2376	06 85 58	S Lyncis	8	7096	19 42 82	SY Cygni	. 3	8584	23 50 53	RR Cassiopeiae	8
2404	06 40 80	X Geminorum	3	7220	20 08 57	S Cygni	8	8610	28 55 25	Z Pegasi	3
2468	06 51 11	Y Monocerotis	2	7223	20 08 46	SW Cygni	3	8622	23 57 15	W Ceti	1
2530	07 01 09	V Canis min.	2	7260	20 09 06	Z Aquilae	1	8629	23 58 55	Y Cassiopeiae	8
3264	09 04 25	W Cancri	8	7360	20 26 22	RU Capricorni	1	/			

II. Index

Constellation	•	R	S	T	ט	v	w	X	Y	Z	В	
Andromeda		III 112		III 103	VI 419	VI 268	VI 787	VI 65	VI 562			
,,	R	VI 276	IV 8582		· .							
Apus	. 13	V 5319			l						l a	V 5013 XX
Aquarius		I 8512	I 8230	I 7468	I 7907	IV 7450	VI 7448	VI 7999	VI 7435	IV 8562		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
,,	R	VI 7619	VI 7594	VI 8026								
Aquila		II 6849	IV 7242	IV 6726		IV 6834				VI 7260	22	V 7124 XIV
,,	R	VI 7619	VI 7594				IV 7244				1 1	,
Aries		II 782	Ц 715	IV 976								
Auriga		III 1855	III 1923		l		VI 1921	VI 2186	IV 1929	IV 2122	۾	V 1768 V
Bootes		III 5237	III 5157		II 5338	IV 5194	-		, ,		ľ	, 2,00
Camelopard.		III 5190	III 1981	III 1623							l	
Cancer		II 2946	IV 3109	IV 3186		_	VI 3264	IV 3179				
Canes Venat.		III 4948		VI 4471				- 3-19				
Canis Mai.		V 2610							• • • •	· · · <i>·</i>		
Canis min.		IV 2539	II 2684	II 2691	II 2735	VI 2530			• • • •	' ' ' '		
Capricornus		I 7234		I 7659		I 7571	I 7252	I 7577	I 7733	VI 7590		
"	R		IV 7570	IV 7268								•
			. 1319	11 /200	12 /300	••••	• • • •	• • • •			Ι,	W stor)
Carina		V 3418										V 3495 X/X
Cassiopeia		IV 8600	III 432	III TOT	III 243	VI Sage		VI 659	VI 8629	į	7	0 .,,
-	R	VI 8584	43ª	111 10/		VI 0324		VI 059	VI 0029	• • • •	α	V 209 I
"	~`	12 0304	• • •	• • • •		• • • •			• • • •		8	37 0-44)
Cepheus			III 7779	IV 7609	IV 320			VI 7582	VI 188	{	~	V 8073 XVI
Cetus		I 845	I 114	V 700	IV 893	I 8597	VI 8622	VI 1166		Į	μ	V 7803∫"' 1 IV·V 806 <i>II</i>
Coma Beren.		II 4315				- 0597	VI 0022	VI 1100	• • • •	• • • •	١"	10.0 200 21
Corona Bor.		III 5667	III 5504		IV 5484	 Ш 5675		• • • •	• • • •	• • • •	1	
Corvus		I 4407						• • • •	• • • •	• • • •		
Cygnus		III 7045	VI 7220		IV 7299	III 7428	37	37 - 40-	737 - 400	TTT	۱.,	TTT 37 3575
	R	_	IV 7259	137 9 -	IV 7783		V 7754	¥ 7437	IV 7488		x	III.V 7120 <i>XV</i>
"	s				IV 7085a	IV 7795	IV 7351	• • • •	777 C	VI 7492		•
"	T	• • • •	VI 7793			-	VI 7223	TX7 +400	VI 7096	IV 7378		
"	ָ ปี	• • • •		IV 7063		TV ===0		100		• • • •	ı	
"	v		• • • •	• • • •	• • • •	IV 7008		777				
)) Dalahinya		77	TT	TT ~	TT7	37T	777		IV 7563	IV 7846	Ī	
Delphinus Drago		П 7261	II 7431		IV 7446		VI 7399		• • • •	• • • •	Ì	
Oraco		III 5955	IV 6005			TY C	• • •	• • •	• • • •	• • • •		
Eridanus		• • • •	• • • •	• • • •		IV 1438	• • • •	• • • •	• • • •		_ ا	
G emi ni		II 2528	II 2742	II 2780	II 2815	II 2625	IV 2335	VI 2404		[5	V 2509 VI
	1	_					1	- 1			ויי	V 2213 [1

Constellationum.

Constellatio	,	R	s	т	υ	v	w	x	Y	Z	В
Hercules		II 5770	II 6044	III 6512	II 5889		III 5950	V 5758		IV 6442	g V 5912)
,,	R	IV 5768	VI 6225		VI 5796a			IV 6636a			u V 6202 X
,,	S		VI 5928a	IV 5687							a V 6181
Hydra		IV·V 4826	II 3170	I 3184	V 3796	IV 3881		VI 3425	IV 3519		
"	R			IV 3028		IV 3089		٠			
Lacerta		III 8153	III 8068		IV 8182	IV 8187					
I.eo		IV 3493	II 3994]	1	II 3567	II 3890				
Leo min.		III 3477			[]		
Lepus		IV 1771	IV 2170	VI 1803	IV 1752	1					
Libra		VI 5688	I 5494	I 5430	I 5617	I 5249	I 5593	I 5583		I 5644	δ V 5374 IX
,,	R	I 5704	VI 5511	VI 5405	VI 5566	IV 5221					
Lynx	,	III 2478	VI 2376				1				i i
Lyra		V 6794					1	IV 68948	VI 6685		β 7 6758 ΧΙΙΙ
,,	R	IV 6974									
Monoceros		VI 2362		IV · V 2279	IV 2676	VI-IV 2266					1 1
Ophiuchus		I 6132	I 5931	I 5928	V 6189		VI 5856		V 6404	VI 6207	
Orion		II 1761	I 1944	I 1986	II 2100	II 1805	V 1800				α V 2098 VI
Pavo								.,			× V 6760
Pegasus		· II 8290	· 11 8373	└II 7944	IV 8598	VI 7896	IV 8369		VI 7961	VI 8610	β V 8273 XVII
,,	R		VI 7964	• • • •						[· · · · ,	
Perseus		III 1222	III 814		III 678		IV 980	IV 1375	IV 1205	{	β V 1090 Q V 1072 III
Pisces	1	II 513	II 434	П 161	II 466			1			
Puppis		l		1	I 2857	V 2852		1			L ² V 2583 XVII
"	R	1	V 7149		IV 2899						1
Sagitta		IV 7257		IV 6943	IV 6927				.	1	
Sagittarius	1	I 6905		I 6903	IV 6636	1	V 6472	V 6368	1		1
Scorpius	l	I 5830	I 5831	1		1	I 5795	I 5776	VI 5903	I 5761	1
Scutum	ì	V 6733	IV 6749	1	IV 6773		• • • •				
Serpens		II 5677	II 5501	VI 6624	VI 5775		$ \cdot \cdot \cdot \cdot$				1
Taurus		II 1577	II 1582	II 1537		II 1717	II 157.	+ · · ·	. IV 2038	VI 20808	λ V 1411 IV
"	R	VI 2000		, .	VI 2081	• • • •		• • • •	• • • • •		
Triangulum		III 906								• • • •	
Ursa Mai.		III 3825	III.IV 4557	III 4511	IV 3649	IV 3247	IV 346	$\cdot \cdot \cdot$	IV 4535	1	
Ursa min.		IV 5948	IV 5601			1	$1 \cdot \cdot \cdot$	$\cdot \cdot \cdot \cdot $	1		N W VIV
Vela	-						1		· · · · ·		N V 3409 XIX
Virgo	1	IV 4521	I 4847	I 4377		I 4816	IV 480	•	. I 4492	I 5070	
,,	R	I 5037	1					3 IV 4318			
Vulpecula		II 7560	IV 7106	V 7483	IV 7034	IV 7394	IV 723	5	$\cdot \cdot \cdot \cdot \cdot$	1	

TABULAE

Ad Comparandas Litteras Stellarum Variabilium Inter duo Systemata

Annuarii: "Bureau des Longitudes" et Ephemeridum "Astronomische Gesellschaft"

R	S	7		U	V	W	<i>T</i>	X	Y	Z
R³	S²	ገ	2	U²,	V^{2}	W	72 :	X²	Y^{2}	Z^{2}
•	R^3	S	S^3	T^3	U^{3}	V	73	W^{3}	X^3	Y^3
•	•	2	\mathbb{Z}^3	R^{4}	S^4	Γ	74	U ⁴	V^*	W^4
•	•	•	•	X4	$Y^{\scriptscriptstyle 4}$	7	7 4	$R^{\mathfrak{s}}$	S	T^{5}
•	•		•	•	$\mathbf{U}^{\mathfrak{s}}$	V	7 5	$\mathrm{W}^{\mathfrak{s}}$	$X^{\mathfrak{s}}$	$\mathrm{Y}^{\scriptscriptstyle{5}}$
•	•	•	•	. •	•	7	75 -	$R^{\mathfrak{s}}$	S^{6}	$T^{\mathfrak{o}}$
•	•	•	•	•	•	•		$U^{\scriptscriptstyle6}$	V^{6}	$W^{\mathfrak{s}}$
•	•	,	•	•	•	•		•	$X^{\mathfrak{s}}$	$\mathbf{Y}^{\scriptscriptstyle 6}$
•	•			• .	•	•		•	•	Z^{6}
	•									
A	В	C	D.	Е	F.	G	Н	Ï	K	Z
R^7	S^7	T^{7}	U'	V^7	W^7	X^{7}	Y	Z^{7}	R^{s}	X°
•	Y^9	Z°	R^{10}	S^{ro}	T^{10}	U_{10}	V^{10}	$W^{{\tt io}}$	X_{10}	U^{12}
•	•	$V^{{\scriptscriptstyle { exttt{12}}}}$	$W^{{}^{{}_{12}}}$	X	$Y^{{\scriptscriptstyle{\mathtt{12}}}}$	$Z^{{}^{{}_{12}}}$	R^{i3}	S^{i3}	T^{r_3}	Z^{r_4}
	R ³	R³ S³ . R³	R ² S ² T · R ³ S · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · ·	R³ S³ T³ R³ S³ S³ R³ S³ T³ R³ S³ D³ R³ S³ T³ D° R³ S³ T° T° R³ R³ R³ R³ R³ R³ R³ R³ R³ R	R³ S³ T³ U² R³ S³ S³ T³ R⁴ R⁴ R⁴ R⁴ R⁴ R* R* R* R* R*	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

etc.